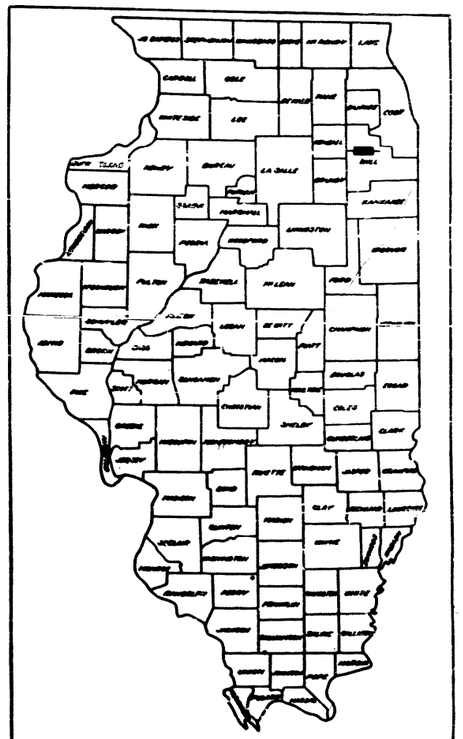
FEDERAL-AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA I-80	99-4B-1	WILL	32	1
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT I-80-4(36)134		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID INTERSTATE HIGHWAY

SCALES
- PLAN 1 INCH 50 FT.
- PROFILE, HOR. 1 INCH 50 FT.
- PROFILE, VERT. 1 INCH 5 FT.
- CROSS-SECTIONS 1 INCH 10 FT.

F.A.I. ROUTE 80 SECTION 99-4B-1
PROJECT I-80-4(36)134
WILL COUNTY

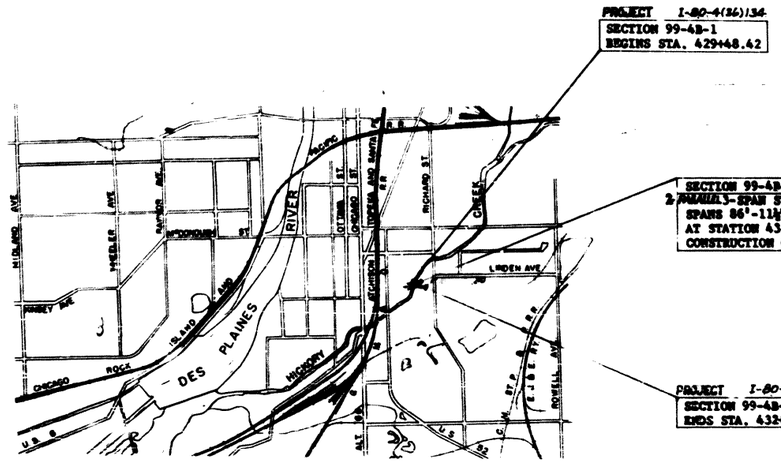


LOCATION OF SECTION INDICATED THUS:—

PLANS FOR STRUCTURES APPROVED July 12 1963
H. E. Baumann
CHIEF ENGINEER

INDEX TO SHEETS

99-4B-1
- 1-A TITLE SHEET SECTION 99-4B-1, 4-VB
- 1 TITLE SHEET SECTION 99-4B-1
- 2 TYPICAL SECTION
- 2A,2B,2C,2D CRITICAL PATH SCHEDULE
- 3 SUMMARY OF QUANTITIES AND GENERAL NOTES, SECTION 99-4B-1
- 4-7 PLANS AND PROFILES
- 8-9 EXISTING TOPOGRAPHY AND REMOVAL QUANTITIES
- 10-11 EXISTING UTILITIES
- 12-23 BRIDGE PLANS
- 24 APPROACH SLABS
- 25-28 CROSS SECTIONS
- 29 STANDARDS 1686-2, 1977-4.
- 30 STANDARDS 1971-3, 2113-1, 2114
- 31 STANDARDS 1972-1, 1986
- 32 STANDARDS 2138-2



APPROXIMATE SCALE 1" = 2000'

Revised Sheets 4,8,10
NHW 6-9-64

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

SUBMITTED July 27 1961
Geo. E. Voss
ASSISTANT DISTRICT ENGINEER

EXAMINED April 27 1964
William Cunningham
ENGINEER OF ROAD PLANS AND CONTRACTS

PLANNED April 27 1964
ENGINEER OF DESIGN

APPROVED April 27 1964
CHIEF HIGHWAY ENGINEER

APPROVED April 27 1964
DIRECTOR

SET 1 of 2 SETS

PROJECT LENGTH 265.42 Ft. = 0.050 Mile

PLANS PREPARED AND RECOMMENDED BY

BLAUVELT ENGINEERING COMPANY

CONSULTING ENGINEERS

CRYSTAL LAKE, IL — NEW YORK, N.Y. — WOODBURY, N.J.

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

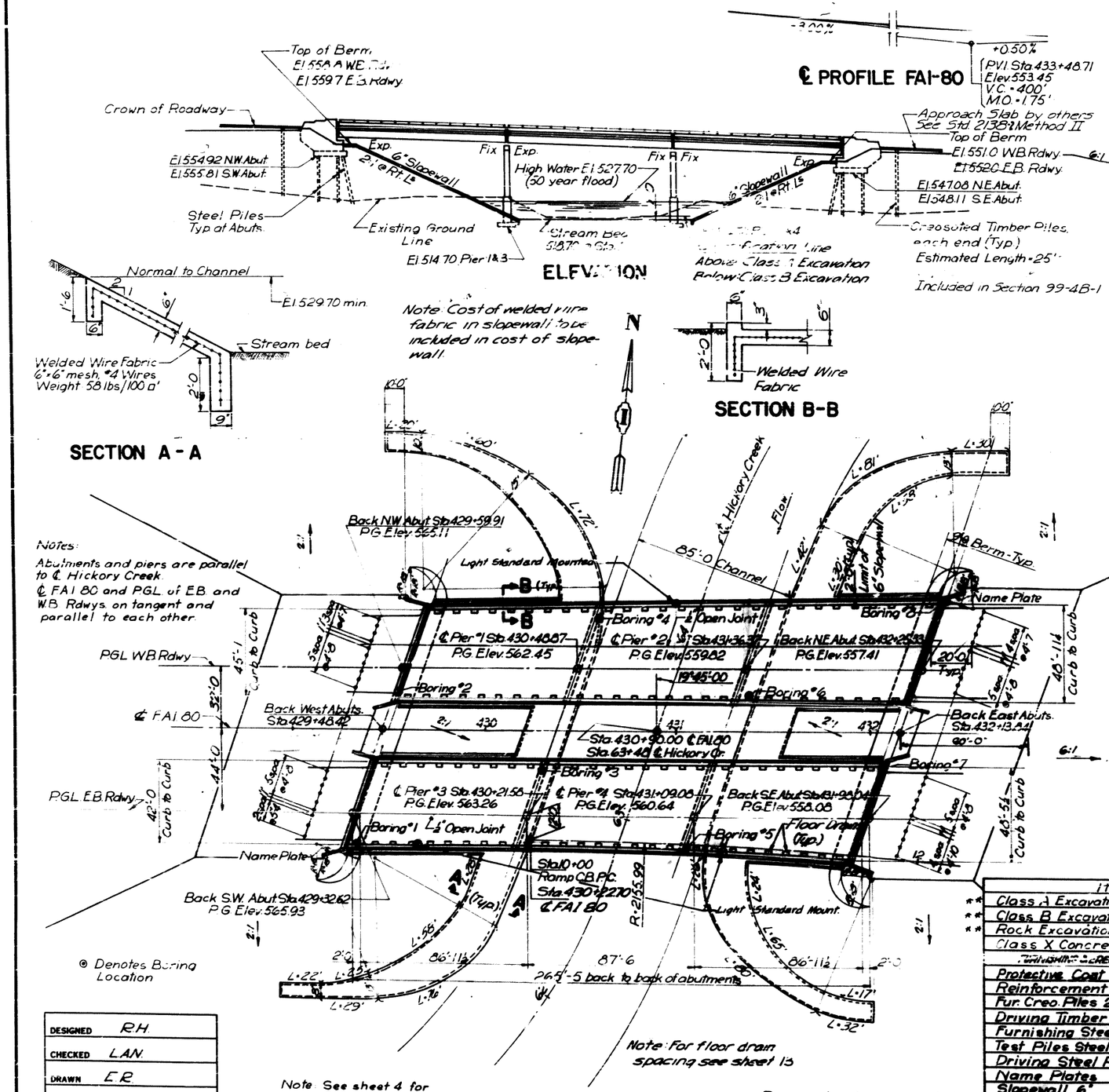
APPROVED

DIVISION ENGINEER DATE

Bench Mark No. 60: S.E. corner concrete S.W. in front of Pioneer Garden [illegible] ..ce Hall, N.W. corner of Richard St & Linden Ave. Elev. 533.025
No Existing Structure.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-4B-1	WILL	32	12
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT: I-80-4(36)134		



Notes:
Abutments and piers are parallel to ℄ Hickory Creek.
℄ FAI 80 and PGL of E.B. and W.B. Rdwys. on tangent and parallel to each other.

⊙ Denotes Boring Location

DESIGNED	R.H.
CHECKED	L.A.N.
DRAWN	E.R.
CHECKED	L.A.N.

STATION 430+90
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 80 SEC. 99-4B-1
F.A. PROJ. I-80-4(36)
LOADING H20-S16 & ALT.

See Standard 2113-1
LETTERING FOR NAME PLATE

Sta. 63+48
Elev. 518.70
+0.20%
℄ PROFILE PROPOSED CHANNEL BOTTOM-HICKORY CREEK

WATERWAY INFORMATION

Drainage Area: 107 sq. mi.
Character: Rolling, Clay, Cultivated and residential
Opening Req'd.: 768 sq. ft.
(Based on 50 yr. flood)
Proposed Effective Bridge Opening: 882 sq. ft.

DESIGN STRESSES

Reinforced Concrete:
f'c = 3,500 p.s.i.
fs = 20,000 p.s.i.
n = 10
fc = 1,400 p.s.i. (without Earth Pressure)
fc = 1,000 p.s.i. (with Earth Pressure)
vc = 90 p.s.i. (without Earth Pressure)
vc = 75 p.s.i. (with Earth Pressure)
Structural Steel:
fs = 20,000 p.s.i.
Maximum Foundation Pressure (Piers)
6.9 Tons per sq. ft.
Loading: H20-S16 & alt.

GENERAL NOTES

Class X Concrete shall be used throughout. Coarse aggregate to be used in parapets and end posts must be free of chert, flint, limonite, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications.

Rivets shall be $\frac{3}{4}$" ϕ with $\frac{13}{16}$" ϕ open holes unless noted.

All Rockers, Bolsters, Bearing Plates, Lead Plates, Pintles, and Anchor Bolts shall be fabricated and set in accordance with Article 51.15 of the Standard Specifications and are included in quantity of Structural Steel.

Anchor bolts shall be set before connecting diaphragms over support. Space reinforcing to miss Anchor Bolts.

Expansion guards and plates shall be fabricated and erected in accordance with Article 51.13(d) of the Standard Specifications and are in quantity of Structural Steel.

Except as otherwise provided all Structural Steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 56.1 to 56.5 inclusive of the Standard Specifications.

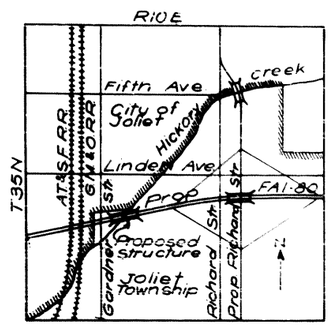
All surfaces of expansion guards inaccessible after erection shall be given two shop coats of red lead paint. The $\frac{3}{4}$" ϕ welded studs shall not be painted.

The Contractor shall drive two (2) test piles in permanent locations as directed by the Engineer, before ordering remainder of piles. One each at either one of the East and West Abutments.

No rock larger than 3" shall be placed in fills in the area where piles are to be driven.

Piles shall be driven to refusal.

Permanent forms will not be permitted in forming the concrete floor.



LOCATION PLAN

TOTAL BILL OF MATERIALS

Section 99-4B-1

	Item	Unit	Super	Sub	Total
**	Class A Excavation for Structures	Cu. Yd.		155	155
**	Class B Excavation for Structures	Cu. Yd.		20	20
**	Rock Excavation for Structures	Cu. Yd.		260	260
	Class X Concrete	Cu. Yd.	748.0	831.6	1580.2
	FURNISHING & ERECTING STRUCTURAL STEEL	Pound			[illegible]
	Protective Coat	Sq. Yd.	3235		38
	Reinforcement Bars	Pound	188360	74690	263050
	Fur. Creo. Piles 20.1 to 38 feet	Lin. Ft.		1025	1025
	Driving Timber Piles	Lin. Ft.		1025	1025
	Furnishing Steel Piles 10BP42	Lin. Ft.		2587	2587
	Test Piles Steel 10BP42	Each		2	2
	Driving Steel Piles	Lin. Ft.		2587	2587
	Name Plates	Each		2	2
	Slopewall 6"	Sq. Yd.		3529	3529
	Aluminum Handrail	Lin. Ft.	1052		1052
*	Bridge Seat Sealant				

* At Piers & Abutments
** Includes Excavation For Slopewall

Prepared and recommended by Blauvelt Engineering Co.
Structural Engineer
#81-2251

GENERAL PLAN & ELEVATION
FAI-80 OVER HICKORY CREEK
STA. 430+90.00

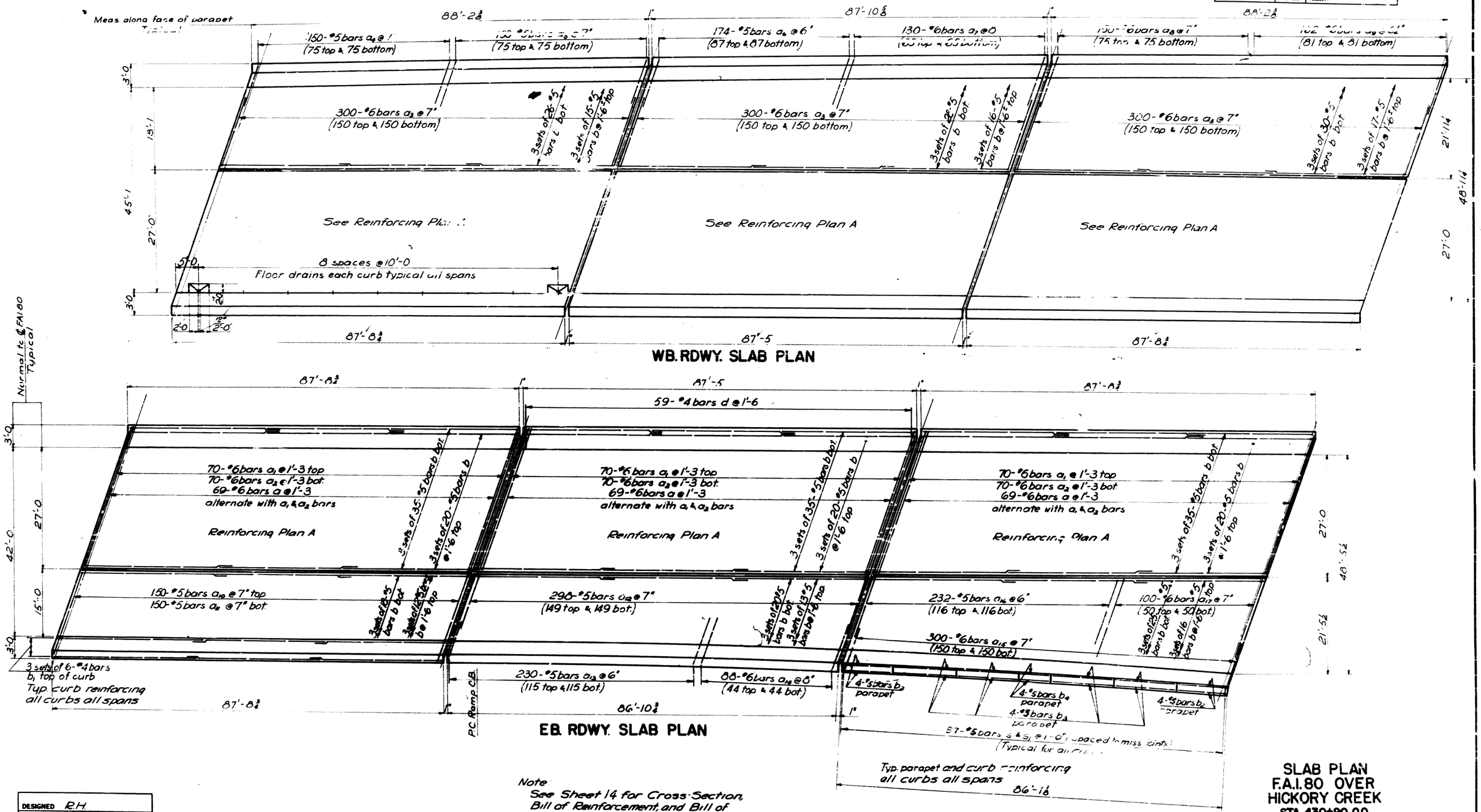
F.A.I. ROUTE 80 — PROJECT I-80-4(36)134
SECTION 99-4B — WILL COUNTY
Scale: NO SCALE — Date: Jan. 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

5-11-64 J.M.J. Rev. quant. for class X conc. from 1521.8 to 1580.2 & reinf. bars from 247483 to 263050
Figured & added Protective Coat — J.M.J. 7/31/62
Added light standards

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.-80	99-4P.1	WILL	32	13
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		



Note:
See Sheet 14 for Cross-Section, Bill of Reinforcement, and Bill of Material.

DESIGNED	R.H.
CHECKED	C.S.
DRAWN	E.R.
CHECKED	L.A.N.

SLAB PLAN
F.A.I. 80 OVER
HICKORY CREEK
STA. 430+90.00

F.A.I. ROUTE 80 — PROJECT WILL COUNTY
SECTION 99-4P.1
Scale: NO SCALE — Date: Jan. 30, 1961

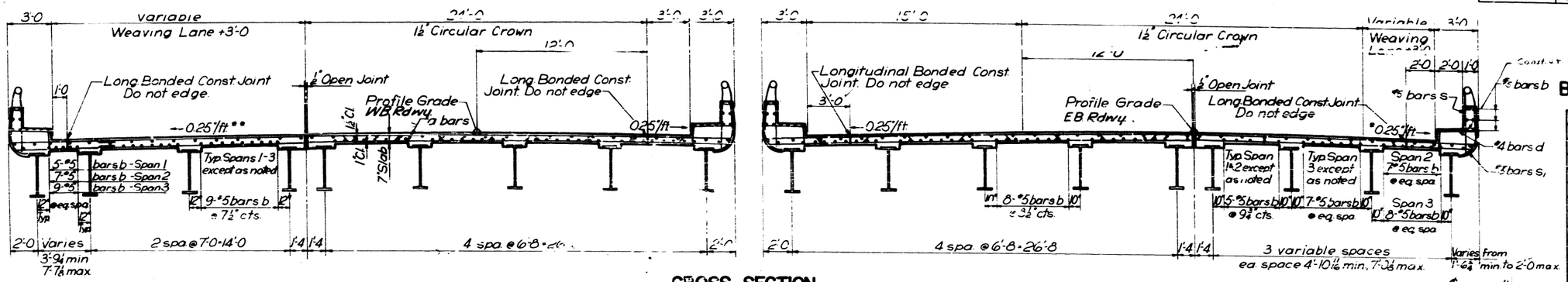
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. — NEW YORK, N.Y. — CRYSTAL LAKE, ILL.

* Place 2 additional S bars at post location

5-14-64 J.M.J. Rev. parapet elev. from #431.6 to #432.4

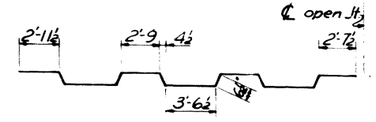
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.-80	99-4B-1	WILL	32	14
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

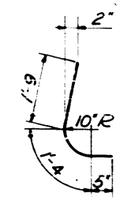


CROSS SECTION

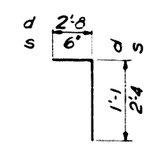
** Cross slope varies after sta. 431+83.96 120' transition to a cross slope of 4.15% at sta. 433+08.96
* Cross slope varies after sta. 431+73.10 250' transition to a cross slope of 8.30% at sta. 434+23.10



BAR a



BAR s_1

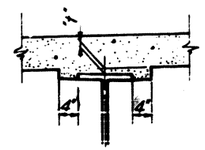


BARS d & s

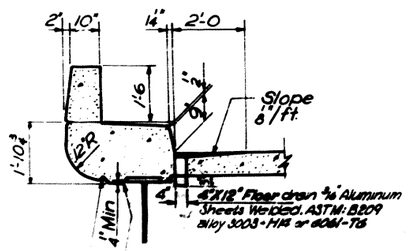
BILL OF REINFORCEMENT

Bar	No.	Size	Lgth.	Shape
a	414	#6	32'-4	
a_1	420	#6	31'-0	
a_2	420	#6	30'-6	
a_3	900	#6	17'-9	
a_4	150	#5	7'-3	
a_5	150	#5	8'-0	
a_6	174	#5	8'-9	
a_7	130	#6	9'-6	
a_8	150	#6	10'-0	
a_9	162	#6	10'-9	
a_{10}	150	#5	16'-6	
a_{11}	150	#5	18'-0	
a_{12}	298	#5	13'-3	
a_{13}	230	#5	8'-9	
a_{14}	88	#6	9'-6	
a_{15}	300	#6	10'-9	
a_{16}	232	#5	15'-3	
a_{17}	100	#6	16'-0	
b	1698	#5	30'-0	
b_1	216	#4	30'-0	
b_2	96	#5	11'-0	
b_3	192	#5	13'-9	
b_4	48	#5	6'-9	
d	700	#4	3'-9	I
s	1356	#5	2'-10	⌉
s_1	1044	#5	3'-6	L

After all structural steel has been erected elevations of the top flanges of the beams shall be taken at intervals shown on D.L. Deflection Diagram. From these elevations subtract the increment of deflections for these points determined from the D.L. Deflection Diagram. The elevations so attained subtracted from the theoretical grade elevations minus floor thickness equals the fillet heights above top of beams.



METHOD OF DETERMINING FILLET HEIGHT "t"



CURB DETAIL

BILL OF MATERIALS

Class "X" Concrete	Cu. Yd.	749.5
Reinforcement Bars	lbs	188960
Structural Steel*	lbs	117740

* Structural Steel includes weight of rockers, bolsters, bearing plates, lead plates, pintles and anchor bolts.
Estimated Weight = 28830 lbs.

ELEVATIONS - TOP OF SLAB

These elevations are the theoretical grade elevations, not adjusted for D.L. Deflection

For location of points see sheet No. 15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
A	564.20	563.90	563.61	563.32	563.03	562.73	562.44	562.15	561.85	561.56	561.53	561.24	560.94	560.65	560.36	560.07	559.78	559.48	559.19	558.90	558.57	558.57	558.30	558.03	557.76	557.50	557.19	556.92	556.65	556.38
B	564.32	564.03	563.74	563.45	563.17	562.88	562.59	562.30	562.01	561.72	561.69	561.40	561.12	560.83	560.54	560.25	559.96	559.68	559.39	559.10	559.07	558.78	558.50	558.24	557.98	557.71	557.45	557.18	556.92	556.67
C	564.54	564.25	563.96	563.67	563.39	563.10	562.81	562.52	562.23	561.94	561.91	561.62	561.34	561.05	560.76	560.47	560.18	559.90	559.61	559.32	559.29	559.00	558.72	558.45	558.18	557.94	557.69	557.41	557.16	556.93
D	564.76	564.47	564.18	563.89	563.61	563.32	563.03	562.74	562.45	562.16	562.13	561.84	561.56	561.27	560.98	560.69	560.40	560.12	559.83	559.54	559.51	559.22	558.94	558.67	558.40	558.14	557.89	557.64	557.41	557.18
E	564.84	564.55	564.27	563.98	563.69	563.40	563.11	562.83	562.54	562.25	562.22	561.93	561.64	561.35	561.07	560.78	560.49	560.20	559.91	559.63	559.59	559.30	559.02	558.75	558.48	558.22	557.97	557.72	557.50	[illegible]
F	565.00	564.71	564.42	564.13	563.85	563.56	563.27	562.98	562.69	562.40	562.37	[illegible]	561.80	561.51	561.23	560.94	560.65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
G	565.08	564.79	564.50	564.21	563.93	563.64	563.35	563.06	562.77	562.48	562.45	562.16	561.88	561.59	561.30	561.01	560.72	560.44	560.15	559.86	559.83	559.54	559.25	558.98	558.71	558.44	558.19	[illegible]	[illegible]	[illegible]
H	565.08	564.79	564.50	564.21	563.93	563.64	[illegible]	[illegible]	562.77	562.48	562.45	562.16	561.88	561.59	561.30	561.01	560.72	560.44	560.15	559.86	559.83	559.54	559.25	558.98	558.71	558.44	558.18	557.93	557.70	557.46
J	565.02	564.73	564.45	564.16	563.87	563.58	563.29	563.01	562.72	562.43	562.39	562.10	561.82	561.53	561.24	560.95	560.66	560.38	560.09	559.80	559.77	559.48	559.19	558.92	558.64	558.37	558.11	557.86	557.62	557.37
K	565.11	564.82	564.54	564.25	563.96	563.67	563.38	563.10	562.81	562.52	562.49	562.20	561.92	561.63	561.34	561.05	560.76	560.48	560.19	559.90	559.86	559.57	559.28	559.00	558.71	558.44	558.16	557.90	557.66	557.41
L	565.32	565.03	564.75	564.46	564.17	563.88	563.59	563.31	563.02	562.73	562.70	562.41	562.13	561.84	561.55	561.26	560.97	560.69	560.40	560.11	560.07	559.78	559.49	559.21	558.92	558.64	558.3[illegible]	558.11	557.86	557.61
M	565.53	565.24	564.96	564.67	564.38	564.09	563.80	563.52	563.23	562.94	562.91	562.62	562.34	562.05	561.76	561.47	561.18	560.90	560.61	560.32	560.28	559.99	559.70	559.42	559.13	558.85	558.56	558.31	558.07	557.82
N	565.73	565.44	565.16	564.87	564.58	564.29	564.00	563.72	563.43	563.14	563.10	562.81	562.53	562.24	561.95	561.66	561.37	561.09	560.80	560.51	560.48	560.19	559.90	559.62	559.33	559.05	558.77	558.50	558.25	558.00
P	565.86	565.57	565.28	564.99	564.71	564.42	564.13	563.84	563.55	563.26	563.23	562.94	562.66	562.37	562.08	561.79	561.50	561.22	560.93	560.64	560.61	560.32	560.03	559.75	559.46	559.17	558.90	558.63	558.37	558.11
Q	565.89	565.60	565.31	565.02	564.74	564.45	564.16	563.87	563.58	563.29	563.26	562.97	562.69	562.40	562.11	561.82	561.53	561.25	560.96	560.67	560.64	560.35	560.06	559.78	559.49	559.20	558.93	558.65	558.40	558.14
R	565.90	[illegible]	565.33	565.04	564.75	564.46	564.17	563.89	563.60	563.31	563.28	562.99	562.71	562.42	562.13	561.84	561.55	561.27	560.98	560.69	560.66	560.36	560.08	559.79	559.50	559.21	558.94	558.66	558.40	558.14
S	565.88	[illegible]	565.31	565.03	564.73	564.44	564.15	563.87	563.58	563.29	563.26	562.97	562.69	562.40	562.11	561.82	561.53	561.25	560.96	560.67	560.63	560.34	560.05	559.76	559.47	559[illegible]	[illegible]	558.60	558.33	558.06
T	565.84	565.55	565.26	564.97	564.69	564.40	564.11	563.82	563.53	563.24	563.21	562.92	562.63	562.34	562.05	561.76	561.47	561.18	560.89	560.60	560.57	560.28	559.99	559.69	559.40	559[illegible]	558.83	558.54	558.26	557.96

DESIGNED	R.H.
CHECKED	C.S.
DRAWN	E.R.
CHECKED	L.A.N.

SLAB CROSS SECTION & ELEVATIONS
F.A.I. 80 OVER HICKORY CREEK
STA. 430+90.00

F.A.I. ROUTE 80 — PROJECT
SECTION 99-4B-1 — WILL COUNTY
Scale: NO SCALE — Date: Jan. 30, 1961

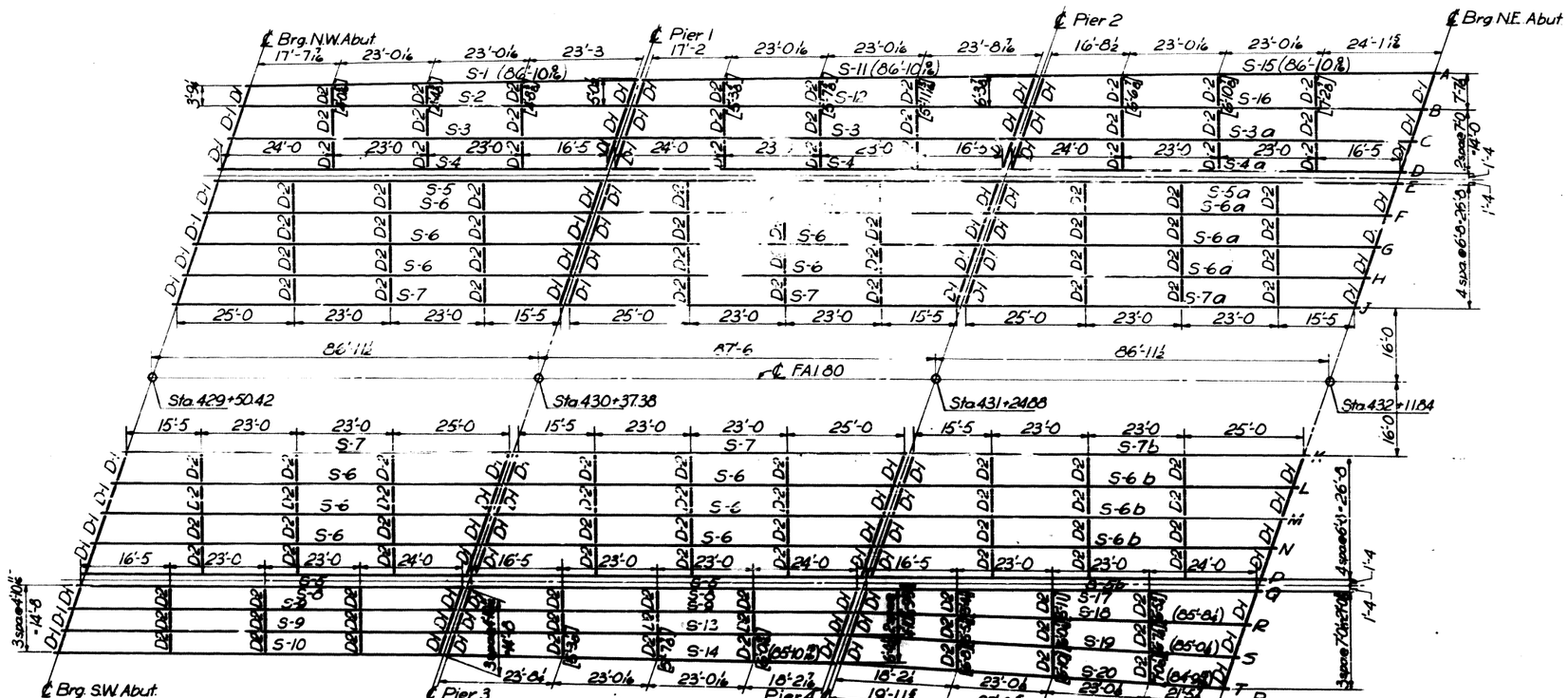
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. — NEW YORK, N.Y. — CRYSTAL LAKE, ILL.

5-19-64 J.M.J. Rev. b_2, b_3, b_4, SKS, bars from #4 to #5 Reinf. bars from 185630 to 188960

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

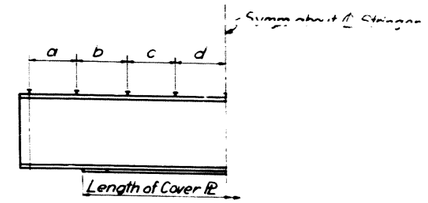
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I.-80	99-4B-1	WILL	32	15
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT-		

Number in [ ] is distance from c. to c. of beam along diaphragm between beams which are not parallel to ℄ FAI 80



FRAMING PLAN

Number in ( ) is the distance c. to c. of bearings for stringers which are not parallel to ℄ F.A.I. 80
All stringers which are parallel to ℄ F.A.I. 80 are 86'-5 c. to c. of bearings.



STRINGER DETAIL

BEAM SCHEDULE

Stgr. Mark	Size	Cover ℙ Size	Cover ℙ Lgth	Shear Connector Spacing a Pitch	a Lgth	b Pitch	b Lgth	c Pitch	c Lgth	d Pitch	Theo. Camber @ ℄ ** a	b
S-1	36WF170	11×1⅛	60'-0	12½"	12'-6	15"	10'-0	18"	10'-6	20"	2¾"	
S-2	36WF182	11×1⅛	61'-0	10"	12'-6	12"	12'-0	15"	7'-6	18"	2¼"	
S-3	36WF230	15×⅞	57'-6	9½"	10'-3½	11"	13'-9	14"	10'-6	17"	2¾"	1½"
S-4	36WF182	11×1⅛	62'-5	9"	12'-0	11"	12'-10	13"	7'-7	16"	1⅞"	1 1/16"
S-5	36WF182	11×1⅛	61'-2	9"	12'-0	11"	12'-10	13"	7'-7	16"	1⅞"	1 15/16"
S-6	36WF194	11×1¼	57'-7	8½"	12'-0½	10"	10'-0	13"	11'-11	16"	2⅛"	1 7/16"
S-7	36WF194	11×1¼	62'-0	9½"	11'-10½	12"	10'-0	14"	14'-0	18"	2⅝"	1⅝"
S-8	36WF160	11×1	60'-8	12"	12'-0	15"	10'-0	18"	10'-6	21"	2¼"	
S-9	36WF170	11×1	59'-6	12"	12'-0	15"	10'-0	18"	12'-0	22"	2¾"	
S-10	36WF170	11×1⅛	61'-7	11½"	14'-4½	14"	12'-10	17"	7'-1	20"	2⅜"	
S-11	36WF182	11×1⅛	61'-8	10"	12'-6	13"	11'-11	15"	7'-6	18"	2¾"	
S-12	36WF194	11×1⅛	61'-8	9"	12'-0	11"	11'-11	14"	10'-6	17"	2½"	
S-13	36WF170	11×1⅛	60'-10	11"	11'-11	13"	10'-10	16"	12'-0	20"	2¼"	
S-14	36WF182	11×1⅛	61'-8	10"	12'-6	13"	11'-11	15"	7'-6	18"	2¾"	
S-15	36WF194	11×1¼	62'-0	9"	12'-0	11"	10'-1	13"	10'-10	16"	2⅜"	
S-16	36WF230	15×⅞	57'-6	9½"	10'-3½	11"	13'-9	14"	10'-6	17"	1⅞"	
S-17	36WF170	11×1	59'-2	11"	12'-10	14"	11'-8	17"	9'-11	22"	1½"	
S-18	36WF182	11×1⅛	62'-6	9½"	11'-10½	12"	12'-0	15"	8'-9	18"	1¾"	
S-19	36WF194	11×1⅛	61'-8	9"	12'-0	11"	11'-11	14"	10'-6	17"	1⅞"	
S-20	36WF194	11×1¼	62'-0	9½"	11'-10½	12"	10'-0	14"	14'-0	18"	2⅜"	

** Theoretical Camber includes vertical curve correction

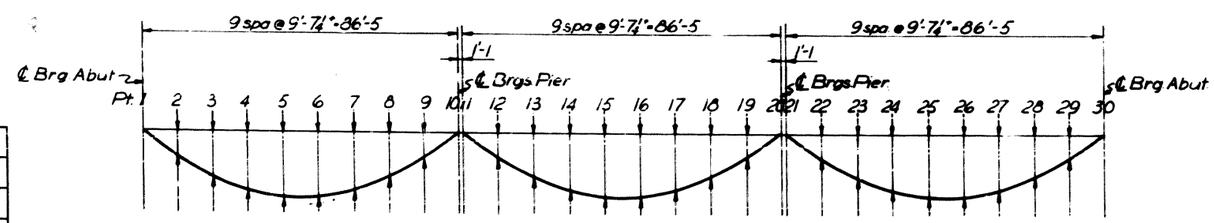
Note: See Sheet 14 for Structural Steel Quantities

All Structural Steel shall conform to ASTM designation A-36

TOP OF BEAM ELEV. OVER SUPPORTS

	1	10	11	20	21	30
A	563.57	561.93	561.90	559.27	559.24	555.75
B	563.69	561.09	561.06	558.47	558.44	556.04
C	563.91	561.31	561.28	558.69	558.66	556.30
D	564.13	561.53	561.50	558.91	558.88	556.55
E	564.21	561.62	561.59	558.99	558.96	556.64
F	564.37	561.77	561.74	559.16	559.12	556.70
G	564.45	561.85	561.82	559.23	559.20	556.84
H	564.45	561.85	561.82	559.23	559.20	556.83
J	564.30	561.80	561.76	559.17	[illegible]	[illegible]
K	564.48	561.80	561.86	559.27	559.23	[illegible]
L	564.69	562.10	562.07	559.48	559.44	556.98
M	564.90	562.31	562.28	559.69	559.65	557.19
N	565.10	562.51	562.47	559.88	559.85	557.37
P	565.23	562.63	562.60	560.01	[illegible]	557.48
Q	565.26	562.66	562.63	560.04	560.01	557.51
R	565.27	562.68	562.65	560.06	560.02	557.51
S	565.25	562.66	562.63	560.04	560.00	557.43
T	565.21	562.61	562.58	559.97	559.94	557.33

Stgr. Pt.	2	3	4	5	6	7	8	9	12	13	14	15	16	17	18	19	22	23	24	25	26	27	28	29
S1-S11-S15	0.070	0.123	0.158	0.176	0.176	0.158	0.123	0.070	0.069	0.120	0.154	0.172	0.172	0.154	0.120	0.069	0.067	0.118	0.151	0.168	0.168	0.151	0.118	0.067
S2-S12-S16	0.052	0.090	0.116	0.130	0.130	0.116	0.090	0.052	0.051	0.089	0.115	0.129	0.129	0.115	0.089	0.051	0.050	0.089	0.113	0.126	0.126	0.113	0.089	0.050
S3-S3-S3	0.050	0.089	0.113	0.126	0.126	0.113	0.089	0.050	0.050	0.089	0.113	0.126	0.126	0.113	0.089	0.050	0.050	0.089	0.113	0.126	0.126	0.113	0.089	0.050
S4-S4-S4	0.043	0.074	0.095	0.106	0.106	0.095	0.074	0.043	0.043	0.074	0.095	0.106	0.106	0.095	0.074	0.043	0.043	0.074	0.095	0.106	0.106	0.095	0.074	0.043
S5-S5-S5	0.041	0.072	0.092	0.103	0.103	0.092	0.072	0.041	0.041	0.072	0.092	0.103	0.103	0.092	0.072	0.041	0.041	0.072	0.092	0.103	0.103	0.092	0.072	0.041
S6-S6-S6	0.052	0.091	0.117	0.130	0.130	0.117	0.091	0.052	0.052	0.091	0.117	0.130	0.130	0.117	0.091	0.052	0.052	0.091	0.117	0.130	0.130	0.117	0.091	0.052
S7-S7-S7	0.065	0.114	0.146	0.163	0.163	0.146	0.114	0.065	0.065	0.114	0.146	0.163	0.163	0.146	0.114	0.065	0.065	0.114	0.146	0.163	0.163	0.146	0.114	0.065
S8-S8-S17	0.041	0.073	0.094	0.104	0.104	0.094	0.073	0.041	0.041	0.073	0.094	0.104	0.104	0.094	0.073	0.041	0.044	0.076	0.098	0.109	0.109	0.098	0.076	0.044
S9-S9-S18	0.049	0.086	0.110	0.123	0.123	0.110	0.086	0.049	0.049	0.086	0.110	0.123	0.123	0.110	0.086	0.049	0.051	0.091	0.115	0.129	0.129	0.115	0.091	0.051
S9-S13-S19	0.049	0.086	0.110	0.123	0.123	0.110	0.086	0.049	0.051	0.088	0.114	0.127	0.127	0.114	0.088	0.051	0.051	0.089	0.115	0.129	0.129	0.115	0.089	0.051
S10-S14-S20	0.071	0.124	0.160	0.178	0.178	0.160	0.124	0.071	0.069	0.120	0.154	0.172	0.172	0.154	0.120	0.069	0.065	0.114	0.146	0.163	0.163	0.146	0.114	0.065



* Dead load deflection in feet due to weight of Slab.

DEAD LOAD DEFLECTIONS

DESIGNED	RH
CHECKED	CS
DRAWN	ER
CHECKED	LAN

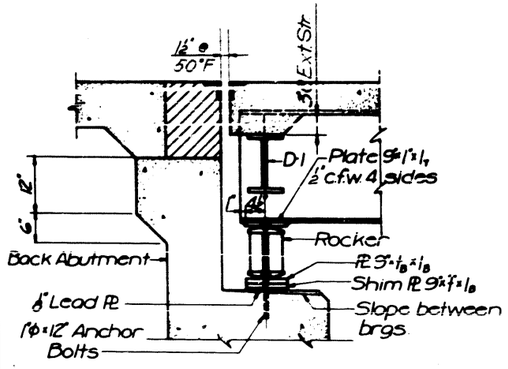
FRAMING PLAN AND STEEL DETAILS
F.A.I. 80 OVER
HICKORY CREEK
STA. 430+90.00

F.A.I. ROUTE 80 — PROJECT
SECTION 99-4B-1 — WILL COUNTY
Scale: NO SCALE — Date: Jan 30, 1961

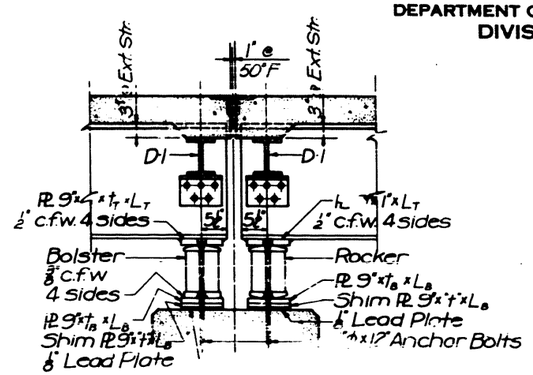
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. — NEW YORK, N. Y. — CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

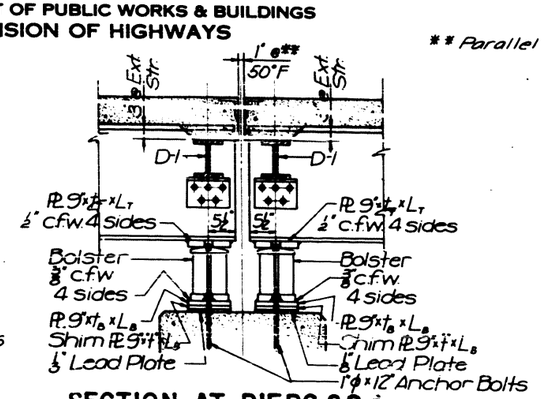
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-4B-1	WILL	32	16
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT -		



SECTION AT ABUTMENTS



SECTION THRU PIERS 1 & 3



** Parallel to ℄ F.A.I. 80

SECTION AT PIERS 2 & 4

Angles shall be held securely in place while pouring concrete with ⅞"ø Bolts in 7/16"ø holes at 12" cts. All bolts shall be burned, sawed or clipped flush with back of angles after forms are removed.

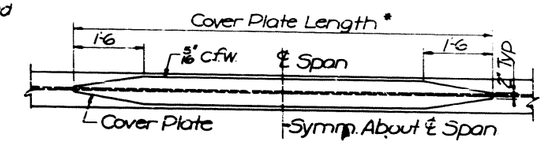
DIMENSIONS FOR BEARINGS

Stringer	l_T	L_B	t_B Fix	t_B Exp	t_T	b
All Stringers Except S-3 & S-16	13"	20½"	1"	1⅞"	1"	6½"
S-3 & S-16	18"	25½"	1"	1⅞"	1"	2@6"

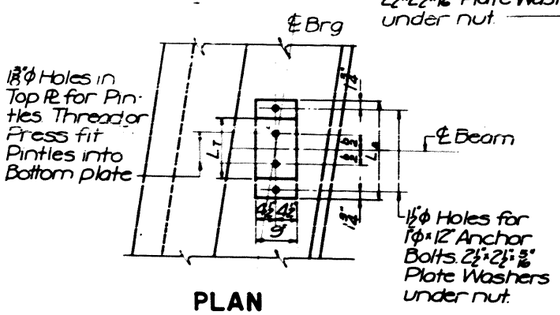
TABLE OF "t" DIMENSIONS

Stringer Line	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
NW & SW Abut.							5/8"	5/8"						1/8"	3/4"	3/4"	9/16"	
Pier 1 & 3 Back	3/4"	13/16"	5/8"	9/16"	5/8"	5/8"	5/8"	5/8"	11/16"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	11/16"	11/16"	13/16"
Pier 1 & 3 Ahd.																	5/8"	
Pier 2 & 4 Back	1/2"		3/8"	3/8"	7/16"	7/16"	7/16"	3/8"	3/8"	7/16"	5/8"	7/16"	5/8"	3/8"	1/16"	1/8"	3/8"	3/8"
Pier 2 & 4 Ahd.		3/16"													1/2"	9/16"	5/8"	
NE. & SE. Abut.							1/8"								7/16"	1/4"		

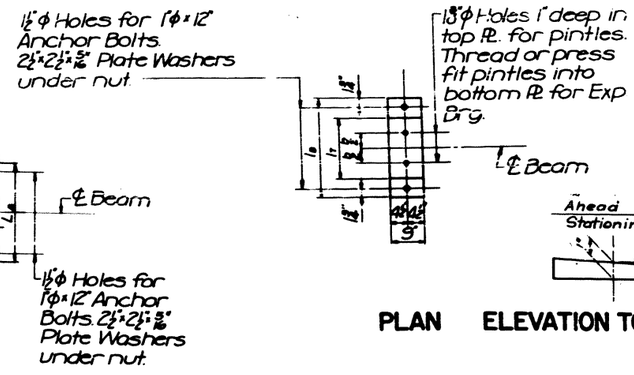
DETAIL OF COVER PLATES



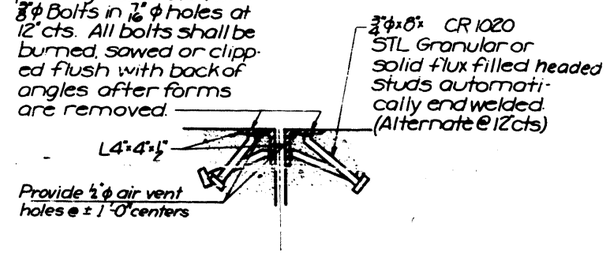
*For Cover Plate Length see Beam Schedule sheet No. 15



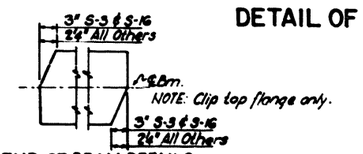
PLAN



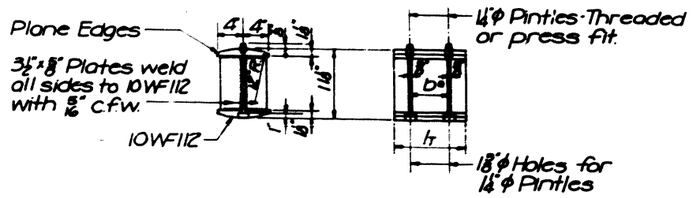
PLAN ELEVATION TOP PLATE



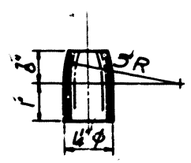
SECTION THRU ANGLE GUARD



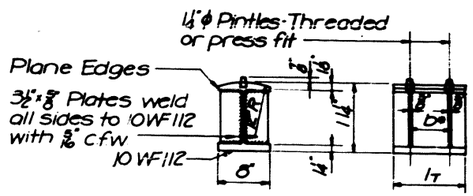
END OF BEAM DETAILS



DETAIL OF EXPANSION BEARING

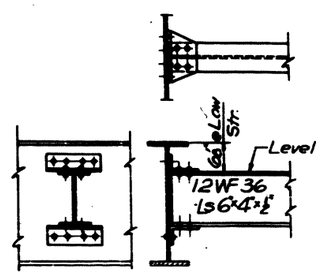


DETAIL OF PINTLE

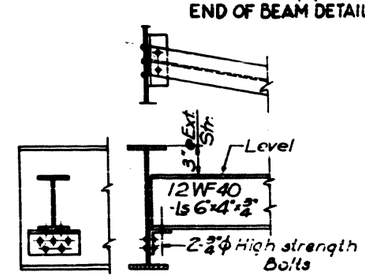


*For stringers S3 & S16 add a ⅜" stiffener plate and pintle. See "Dimensions For Bearings."

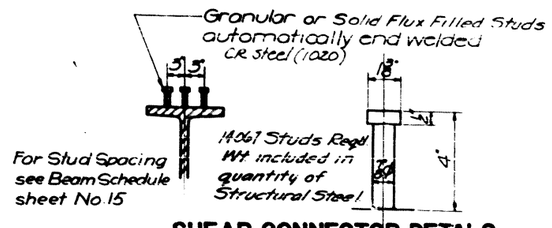
DETAIL OF FIXED BEARING



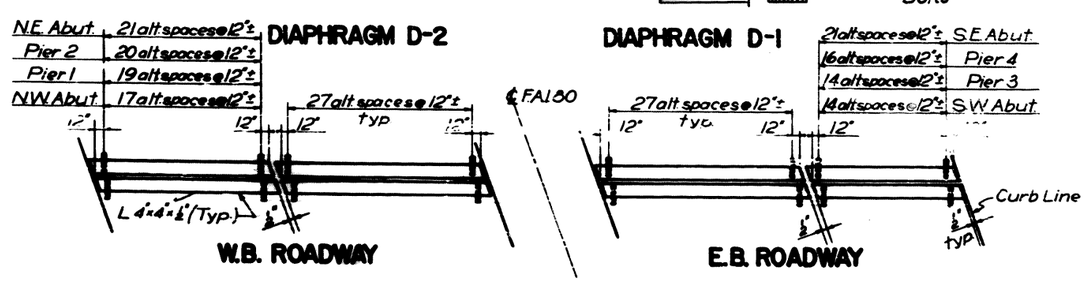
DIAPHRAGM D-2



DIAPHRAGM D-1



SHEAR CONNECTOR DETAILS



W.B. ROADWAY

E.B. ROADWAY

DETAIL OF ANGLE GUARD

DESIGNED	R.H.
CHECKED	L.A.N.
DRAWN	E.R.
CHECKED	L.A.N.

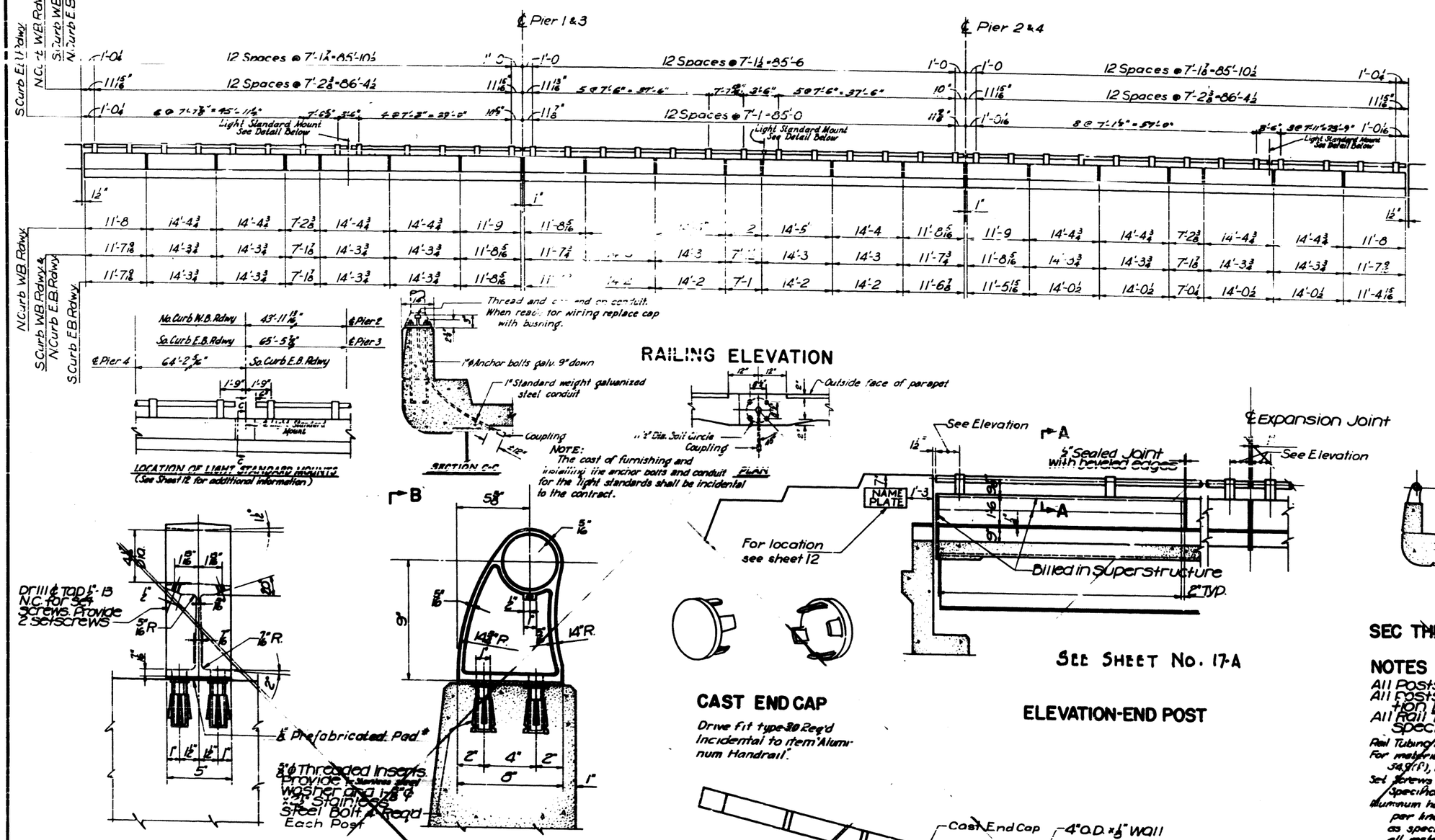
BEARING & MISC. STEEL DETAILS
F.A.I.-80
OVER HICKORY CREEK
STA. 430+90.00

F.A.I. ROUTE 80 — PROJECT
SECTION 99-4B-1 — WILL COUNTY
Scale: NO SCALE — Date: Jan. 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. — NEW YORK, N. Y. — CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-4B-1	WILL	32	17
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT-		



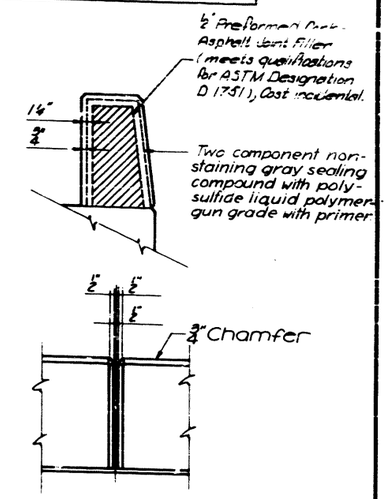
RAILING ELEVATION

LOCATION OF LIGHT STANDARD MOUNTS
(See Sheet 12 for additional information)

SECTION C-C

NOTE:
The cost of furnishing and installing the anchor bolts and conduit for the light standards shall be incidental to the contract.

PLAN



PARAPET JOINT DETAILS

VIEW B-B

SECTION A-A

RAIL POST DETAILS

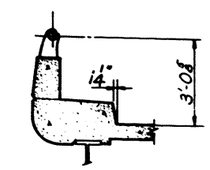
*For each post provide ½" prefabricated pad (See Article 54.9(f) of the Standard Specifications) cost to be incidental to the contract.

CAST END CAP

Drive fit type 30 Req'd Incidental to item "Aluminum Handrail".

SEE SHEET No. 17-A

ELEVATION-END POST



SEC THRU CURB

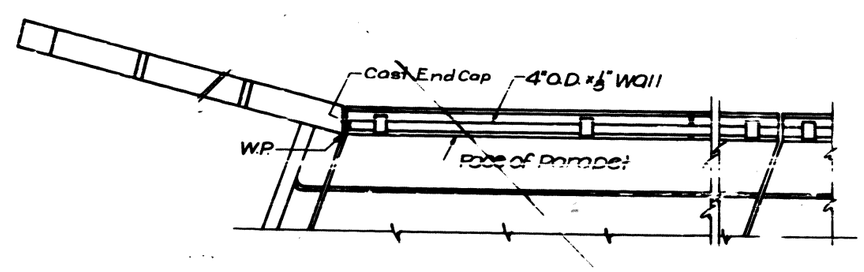
BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Handrail	Lin. Ft.	1052

NOTES

All Posts shall be placed normal to parapet.
All posts shall conform to ASTM Specification B-108 alloy 56-T6 to B-T6.
All Rail Tubing shall conform to ASTM Specification B-235 alloy 6061-T6.

Rail Tubing may be cut to random lengths.
For material composition of Prefabricated Pad, See Art. 54.9(f), (Bearings and Anchorage), of the Std. Specs.
Set Screws shall be of Aluminum conforming to ASTM Specification B-211 alloy 2024-T4.
Aluminum handrail will be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation and erection.
Aluminum handrail shall be measured in lineal feet. The length paid for shall be the overall length along the top longitudinal railing member through all post and gaps.



PLAN-END POST

DESIGNED	RH
CHECKED	CS
DRAWN	S.E.F
CHECKED	LAN

RAILING DETAILS
FAI-80 OVER HICKORY CREEK
STA. 430+90.00

F A I ROUTE 80 — PROJECT
SECTION 99-4B-1 — WILL COUNTY
Scale: NO SCALE — Date: Jan. 30, 1961

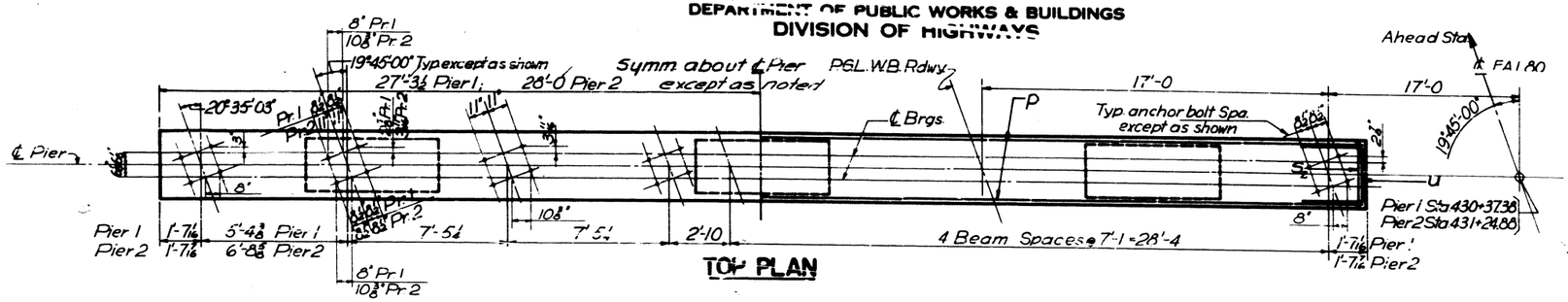
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

REV 1-22-64 NO OF CAST END CAPS FROM 30 to 24 N.P.F.

Rev 5-14-64 - Rail & Parapet spacing revised for Light & Std. locations - D.L.H.

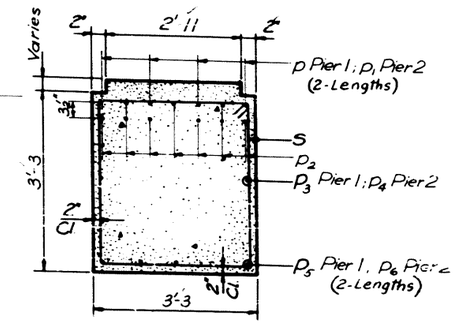
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-4B-1	WILL	32	18
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

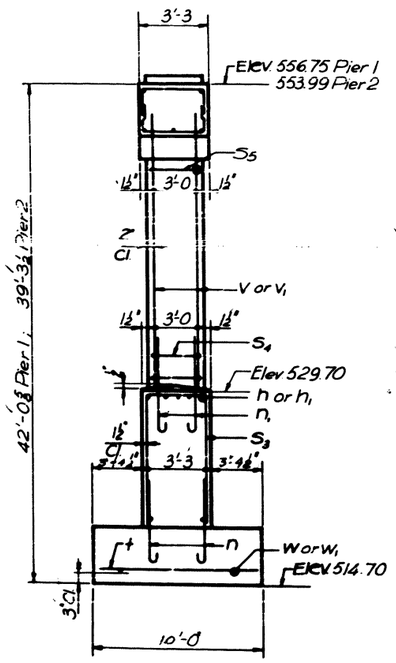


TOP PLAN

Note: For Pad Elevations and Spacing see sheet #23

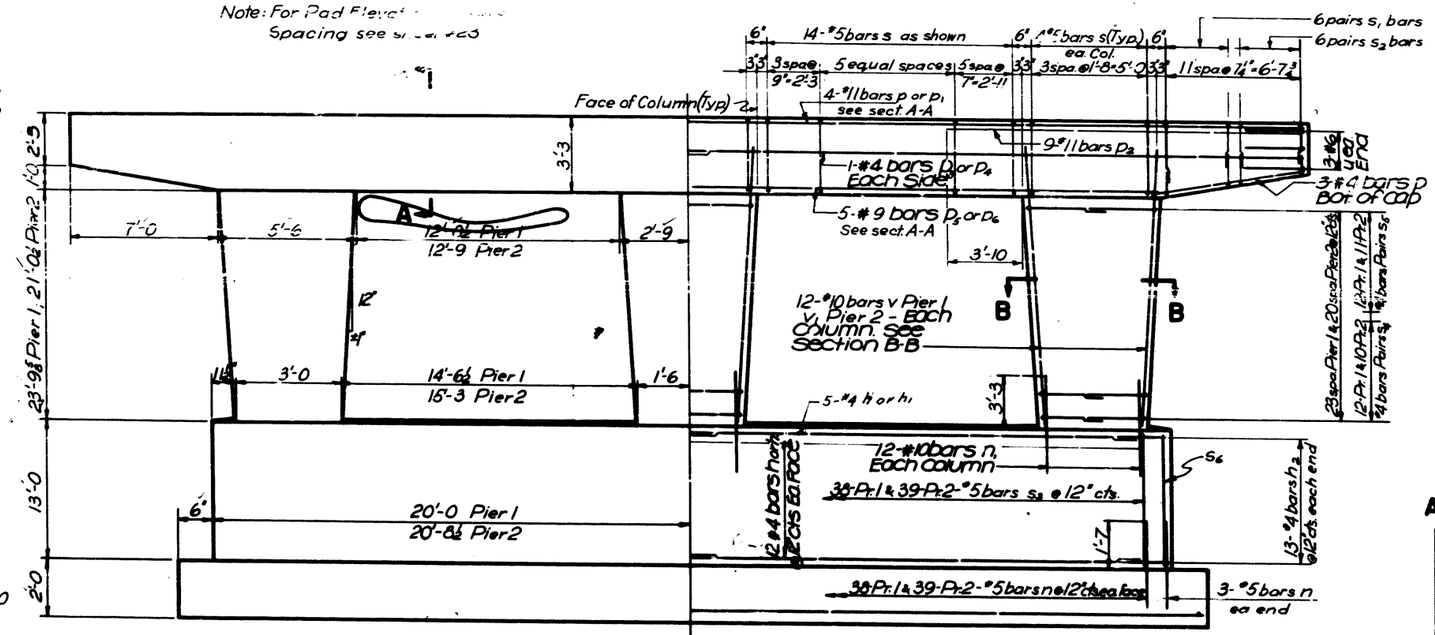


SECTION A-A



END VIEW

Note: All edges shall have standard ¾ chamfer except footing

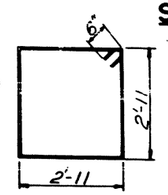


DIMENSIONS

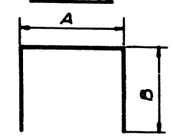
REINFORCEMENT

ELEVATION

Note: Footings shall extend 1'-0 minimum into sound rock



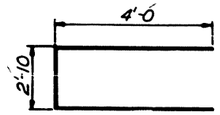
s BARS



s BARS

A & B DIMENSIONS

Bar	A	B
s_1	2'-11	2'-0
s_2	2'-11	1'-9
s_3	2'-11	12'-10
s_4	2'-8	2'-6
s_5	2'-8	3'-1

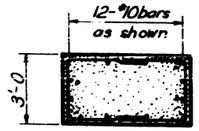


u BARS

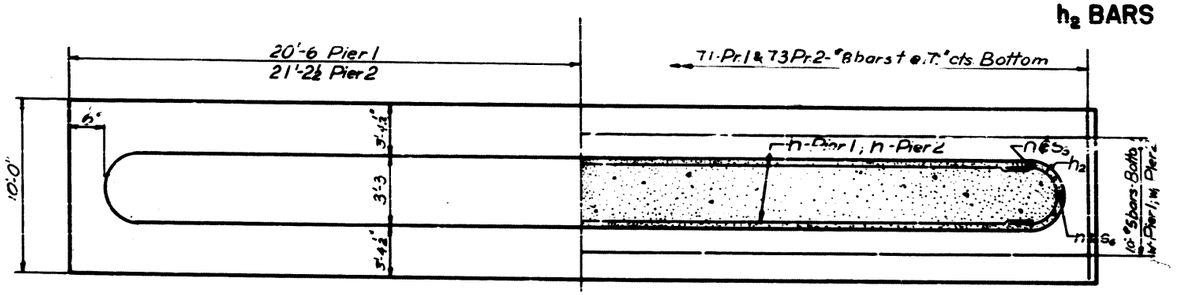
h_2 BARS

PIERS NO. 1 & 2
BILL OF MATERIAL

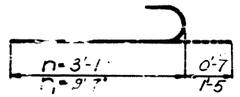
Bar	No.	Size	Lgth	Shape
h	58	#4	19'-6	
h_1	58	#4	20'-3	
h_2	52	#4	6'-7	
n	166	#5	3'-8	
n_1	72	#10	11'-0"	
p	8	#11	28'-6"	
p_1	8	#11	29'-0"	
p_2	36	#11	16'-2	
p_3	4	#4	27'-9	
p_4	4	#4	28'-6	
p_5	10	#9	21'-3"	
p_6	10	#9	22'-0"	
p_7	12	#4	7'-0	
s	80	#5	12'-8	
s_1	48	#5	6'-11	
s_2	48	#5	6'-5	
s_3	77	#5	28'-7"	
s_4	132	#4	7'-8	
s_5	138	#4	8'-10	
s_6	12	#5	12'-9	
t	144	#8	9'-3"	
u	12	#6	10'-10	
v	36	#10	26'-9	
v_1	36	#10	24'-0	
w	20	#5	21'-0	
w_1	20	#5	21'-9	
Class X Concrete			Cu. Yd.	301.4
Reinf. Bars			Lb.	29890



SECTION B-B



FOOTING PLAN



n & n_1 BARS

DESIGNED	R.H.
CHECKED	LAN
DRAWN	E.R.
CHECKED	LAN

PIERS NO. 1 & 2
F.A.I. 80 OVER
HICKORY CREEK
STA. 430+90.00

F.A.I. ROUTE 80 — PROJECT
SECTION 99-4B-1 — WILL COUNTY
Scale: NO SCALE — Date: Jan 30, 1961

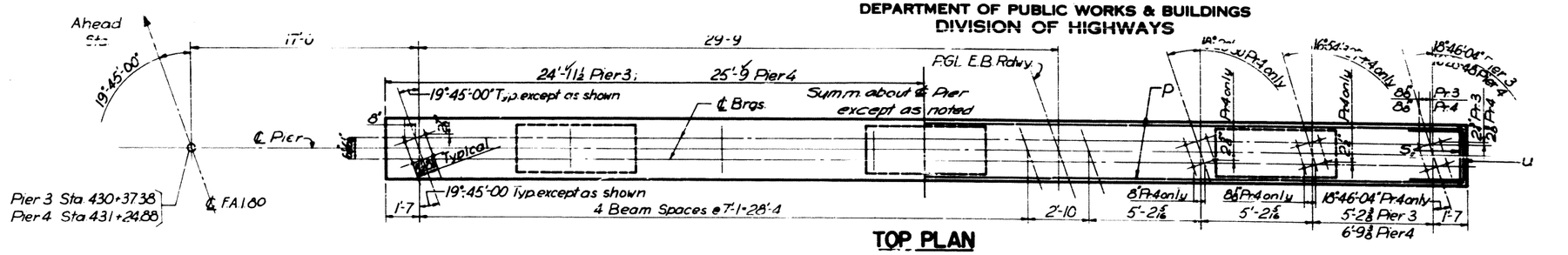
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N.J. NEW YORK, N.Y. CRYSTAL LAKE, ILL.

5-14-64 Rev. J.M.J. Ftg. width from 5'-0" to 10'-0", ftg steel from #5@12" to #8@9" class x from 270.5 to 301.4 steel bars from 25763 to 29890#

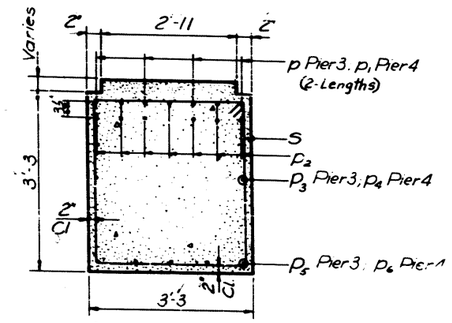
Rev 1-22-64: P from 4@54'-3 to 8@28'-6", P from 4@55'-6" to 8@29'-[illegible], [illegible] from 5@40'-6" to 10@21'-[illegible] P_4 from 5@42'-0" to 10@22'-0". Length of s_5 bar from 27'-7" to 28'-7" N.R.F.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-4B-1	WILL	32	19
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

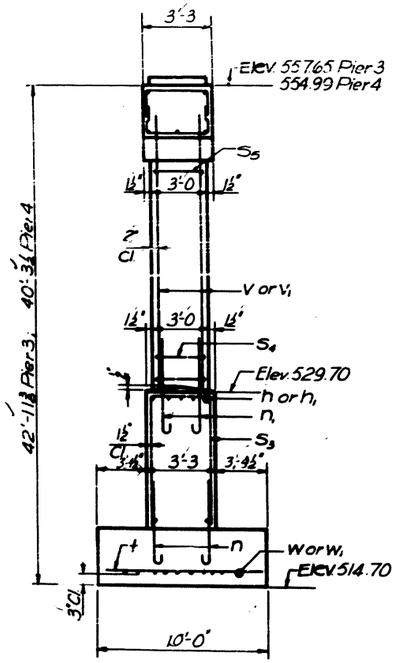


TOP PLAN



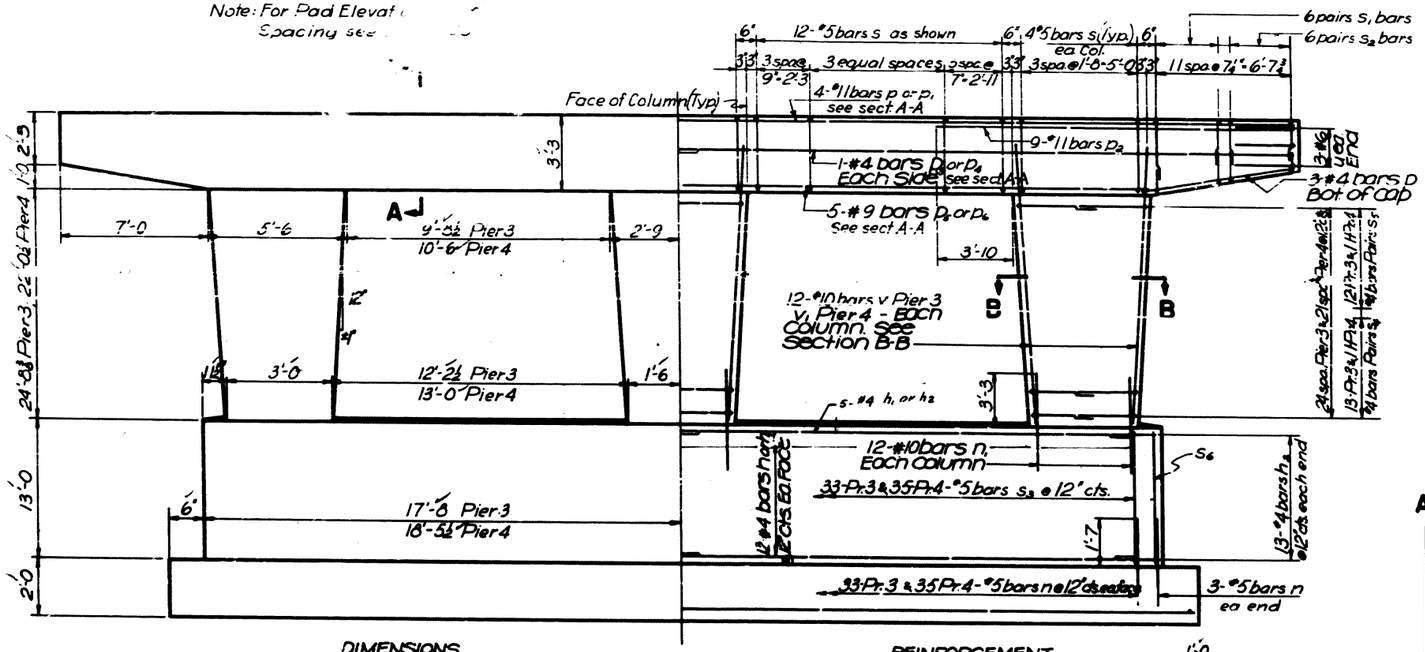
SECTION A-A

Note: For Pad Elevat... Spacing see...



END VIEW

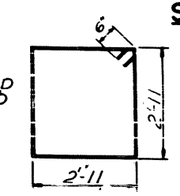
Note: All edges shall have standard ¾ chamfer except footing.



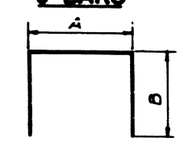
DIMENSIONS

REINFORCEMENT

ELEVATION

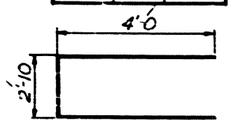


S BARS



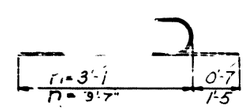
S BARS
A & B DIMENSIONS

Bar	A	B
S_1	2'-11	2'-0
S_2	2'-11	1'-9
S_3	2'-11	12'-10
S_4	2'-8	2'-6
S_5	2'-8	3'-1



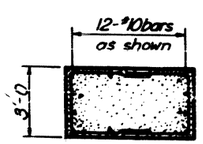
u BARS

h_2 BARS

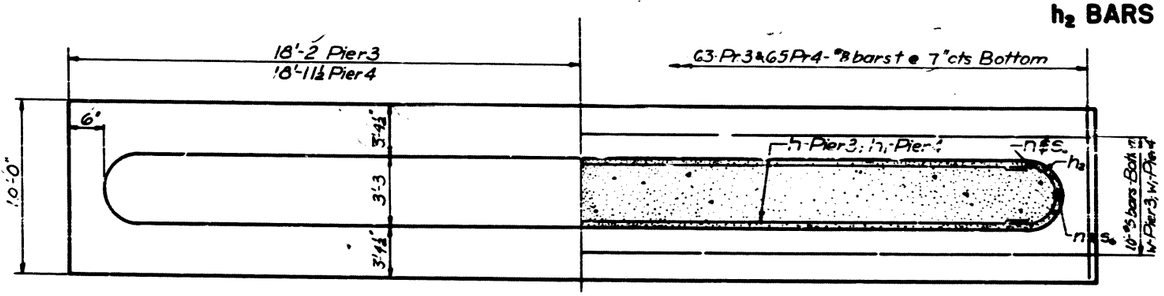


n & n₁ BARS

Note: Footings shall extend a minimum of 1'-0 into sound rock



SECTION B-B



FOOTING PLAN

PIERS NO. 3 & 4
BILL OF MATERIAL

Bar	No.	Size	Lgth.	Shape
h	58	#4	16'-9	
h_1	58	#4	17'-6	
h_2	52	#4	6'-7	
n	148	#5	3'-8	
n_1	72	#10	11'-0	
p	8	#11	26'-0"	
p_1	8	#11	26'-9"	
p_2	36	#11	16'-2	
p_3	4	#4	25'-6	
p_4	4	#4	26'-3	
p_5	5	#9	35'-9	
p_6	5	#9	37'-6	
p_7	12	#4	7'-0	
s	72	#5	12'-8	
s_1	48	#5	6'-11	
s_2	48	#5	6'-5	
s_3	68	#5	28'-7	
s_4	144	#4	7'-8	
s_5	136	#4	8'-10	
s_6	12	#5	12'-9	
t	178	#8	9'-9	
u	12	#6	10'-10	
v	36	#10	27'-9	
v_1	36	#10	25'-0	
w	20	#5	18'-9	
w_1	20	#5	19'-6	
Class X concrete			Cu. Yd.	279.9
Reinf. Bars			Lb.	30170

DESIGNED	RH
CHECKED	LAN
DRAWN	ER
CHECKED	LAN

PIERS NO. 3 & 4
F.A.I. 80 OVER
HICKORY CREEK
STA. 430+90.00

F.A.I. ROUTE 80
SECTION 99-4B-1
PROJECT
WILL COUNTY
Scale: NO SCALE
Date: Jan. 30, 1961

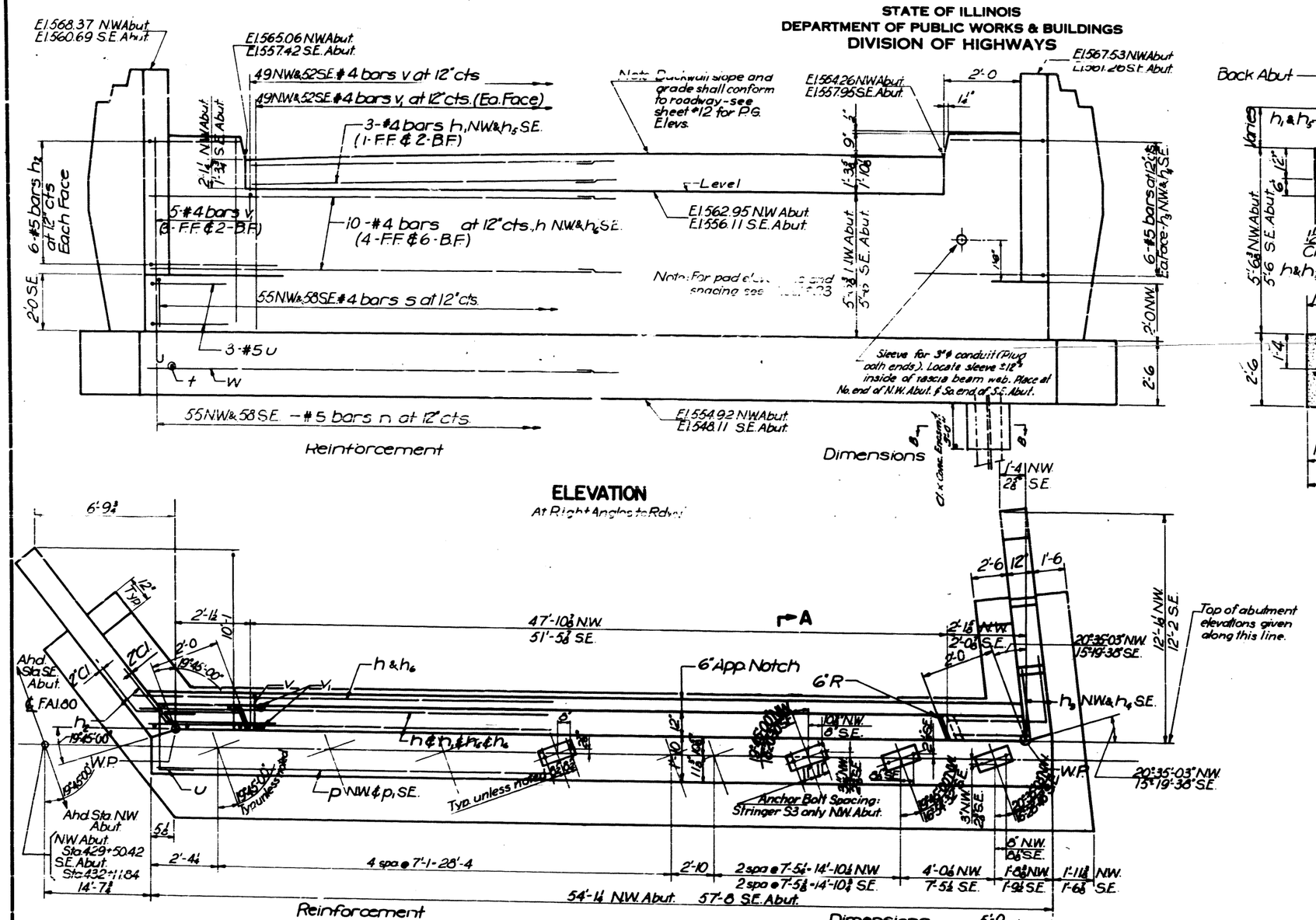
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

5-14-64 J.M.J. Rev. ftg. width from 5'-0" to 10'-0" ftg. reinf. from #5 @ 12" to #9 @ 9" class x conc. from 252.4 to 279.9 cu yds & reinf. bars from 25060 to 30170

REV. 1-22-64: P FROM 4 @ 49'-6" to 8 @ 26'-0", P₁ FROM 4 @ [illegible] to 8 @ 26'-9", LENGTH OF S₃ FROM 27'-7" to 28'-7" N.R.F.

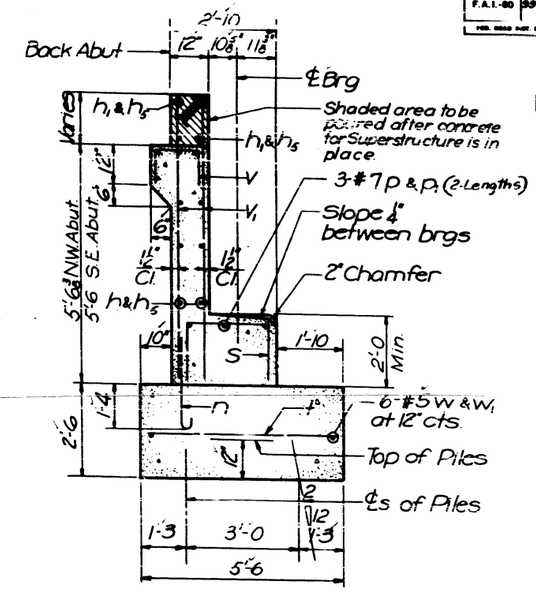
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-4B-1	WILL	32	20
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT-		



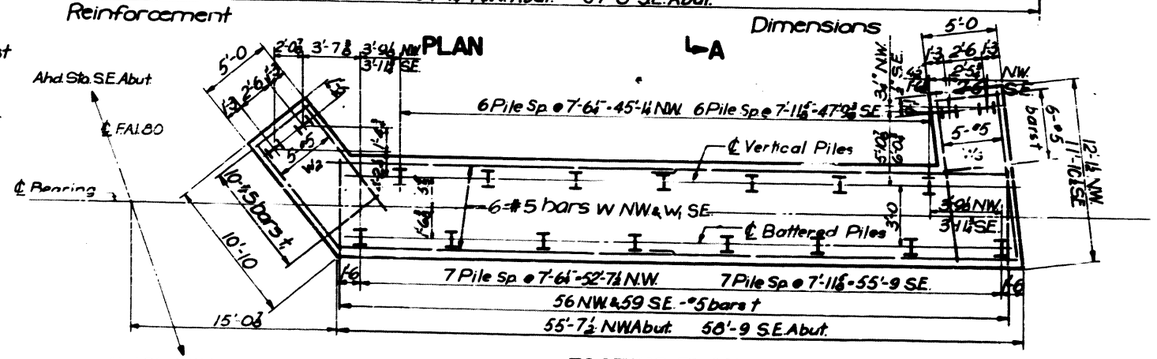
ELEVATION

At Right Angles to Rdwy.



SECTION A-A

For detail of End Post see sheet #22



FOOTING PLAN

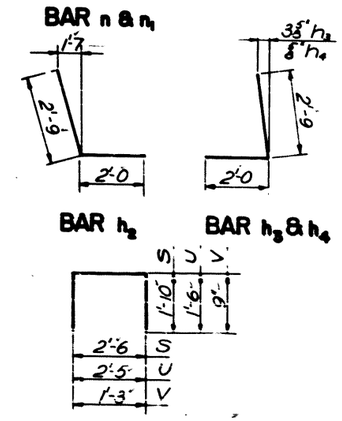
DESIGNED	LAN
CHECKED	RH
DRAWN	SEF
CHECKED	LAN

NW&SE ABUTMENT BILL OF REINFORCEMENT

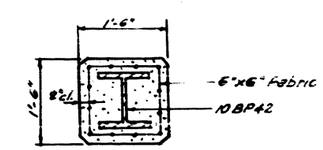
Bar	No.	Size	Lgth	Shape
h	20	#4	27'-9	—
h1	6	#4	24'-6	—
h2	24	#5	4'-9	L
h3	12	#5	4'-9	L
h4	12	#5	4'-9	L
h5	6	#4	26'-3	—
h6	20	#4	29'-3	—
n	113	#5	4'-3	U
n1	56	#5	4'-0	U
p	6	#7	28'-0	—
p1	6	#7	29'-9	—
s	113	#4	6'-2	⊏
t	115	#5	5'-0	—
t1	32	#5	4'-6	—
u	12	#5	5'-5	⊏
v	101	#4	2'-9	⊏
v1	222	#4	6'-6	—
w	12	#5	28'-6	—
w1	12	#5	30'-0	—
w2	10	#5	10'-6	—
w3	10	#5	11'-3	—

NW&SE ABUTMENT BILL OF MATERIAL

Item	Unit	Quan.
Class X Concrete	Cu.Yds.	125.8
Reinforcement Bars	lbs.	7090
Steel Piles 10BP42	Lin.Ft.	1387



Note: Bill of Material includes Reinforcement and Class X Concrete for End Posts.



#4 gage welded wire fabric 6"x6" mesh wt. 58#/100 sq. ft. and Class X Concrete Encasement incidental to steel piles.

SECTION B-B
Typical for all Abutment piles.

PILE DATA

Type-10 BP42
Capacity-Refusal
Est. Length-40 Feet N.W. 33 Feet S.E.
No. Req'd-19 N.W. 19 S.E.

NW & SE ABUTMENTS F.A.I. 80 OVER HICKORY CREEK

STA. 430+90.00

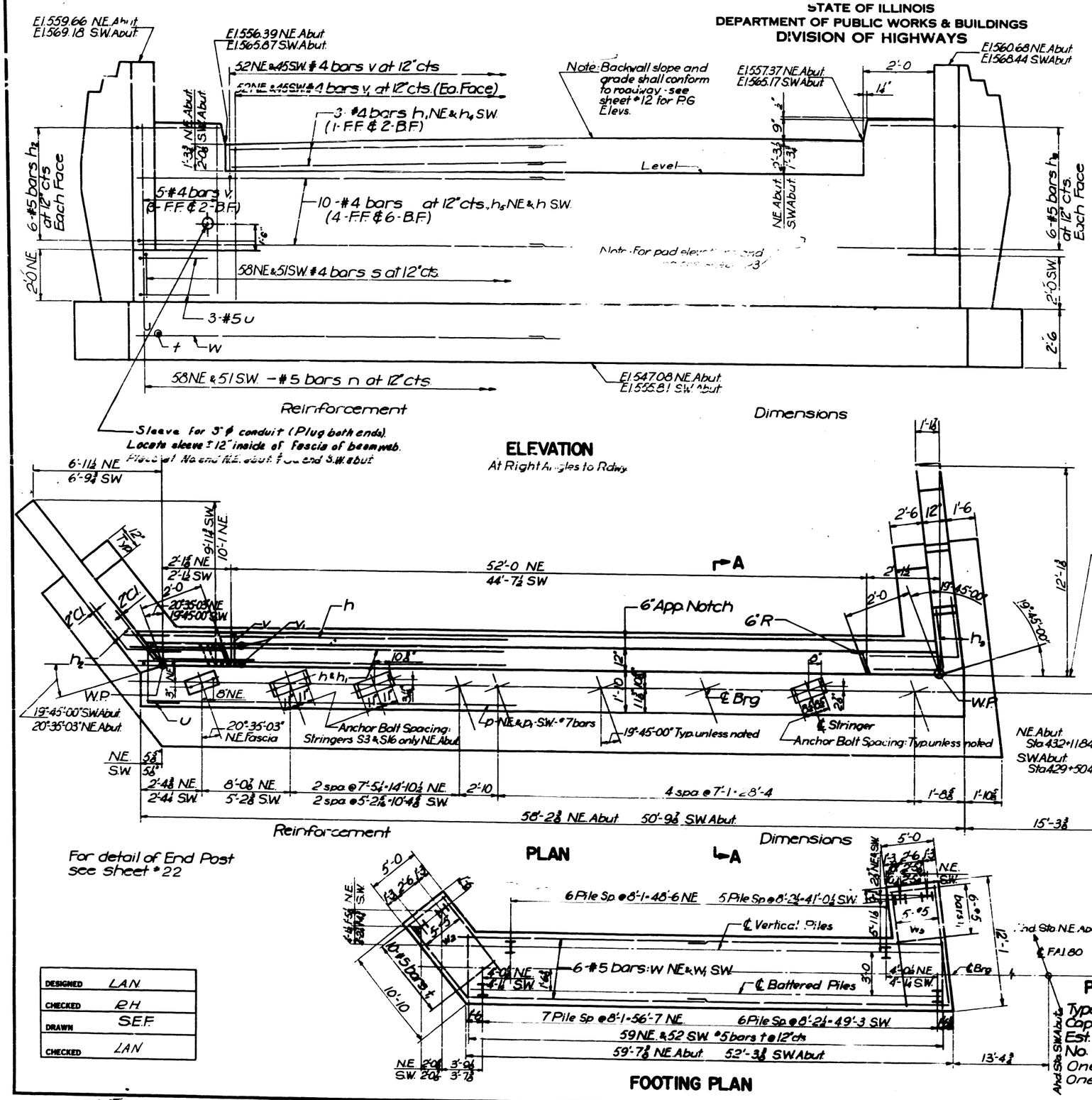
F.A.I. ROUTE 80 — PROJECT
SECTION 99-4B-1 — WILL COUNTY
Scale: NO SCALE — Jan. 30, 1961

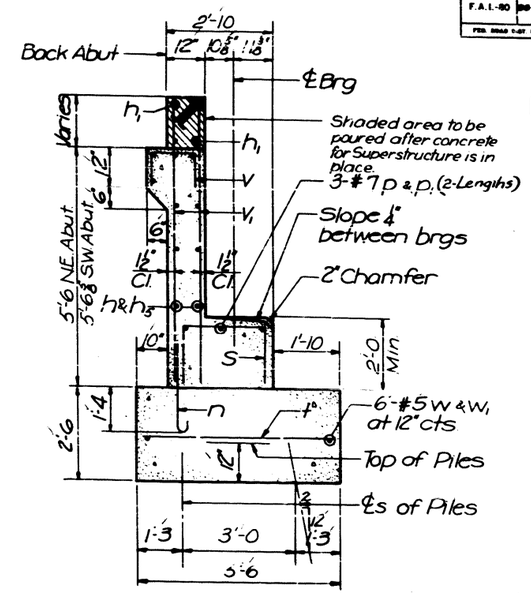
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

REV. 1-22-64: P FROM 3@5'-5" to 6@2'-8"

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-4B-1	WILL	32	21
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT-		





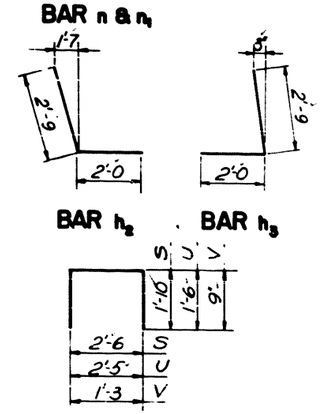
NE & SW ABUTMENT BILL OF REINFORCEMENT

Bar	No.	Size	Lgth	Shape
h	20	#4	26'-3	—
h₁	6	#4	26'-9	—
h₂	24	#5	4'-9	⌊
h₃	24	#5	4'-9	⌊
h₄	6	#4	23'-0	—
h₅	20	#4	30'-0	—
n	109	#5	4'-3	⊔
n₁	56	#5	4'-0	⊔
p	6	#7	30'-0"	—
p₁	6	#7	26'-6"	—
s	109	#4	6'-2	⊓
t	111	#5	5'-0	—
t₁	32	#5	4'-6	—
u	12	#5	5'-5	⊓
v	97	#4	2'-9	⊓
v₁	214	#4	6'-6	—
w	12	#5	29'-9	—
w₁	12	#5	26'-9	—
w₂	10	#5	10'-6	—
w₃	10	#5	11'-3	—

NE & SW ABUTMENT BILL OF MATERIAL

Item	Unit	Quan.
Class X Concrete	Cu. Yds.	121.5
Reinforcement Bars	lbs.	6940
Steel Piles 10BP42	Lin. Ft.	1200
Test Piles Steel 10BP42	Each	2

Note: Bill of Material includes Reinforcement and Class X Concrete for End Posts.



PILE DATA

Type - 10BP42
Capacity - Refusal
Est. Length - 32' Feet NE. 39 Feet SW.
No. Req'd - 18 NE. 16 SW.
One Test Pile NE. Abut.
One Test Pile SW. Abut.

DESIGNED	LAN
CHECKED	RH
DRAWN	SEF
CHECKED	LAN

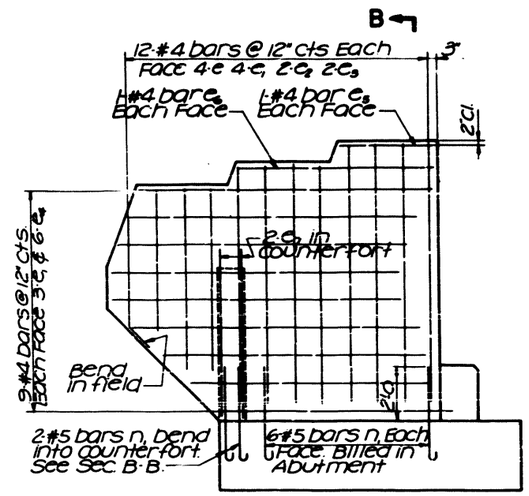
NE & SW ABUTMENTS F.A.I. 80 OVER HICKORY CREEK STA. 430+90.00

F.A.I. ROUTE 80 — PROJECT
SECTION 99-4B-1 — WILL COUNTY
Scale: NO SCALE — Date: Jan. 30, 1961

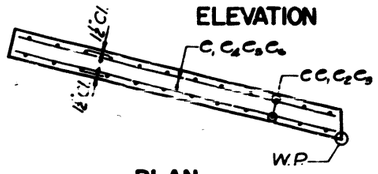
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

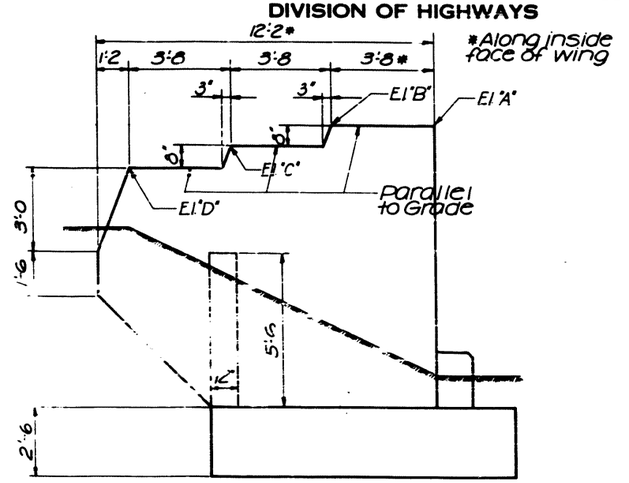
Route No.	Section	County	Total Sheets	Sheet No.
F.A.I.-80	99-4B-1	WILL	32	22
Fed. Aid Proj. No.	State	Project		



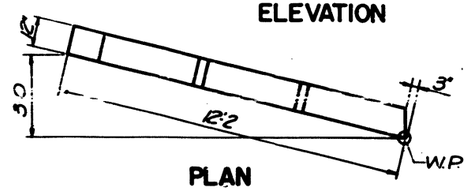
ELEVATION



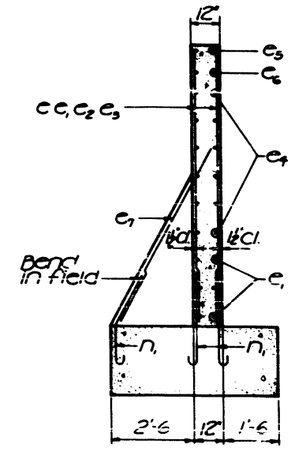
PLAN



ELEVATION



PLAN

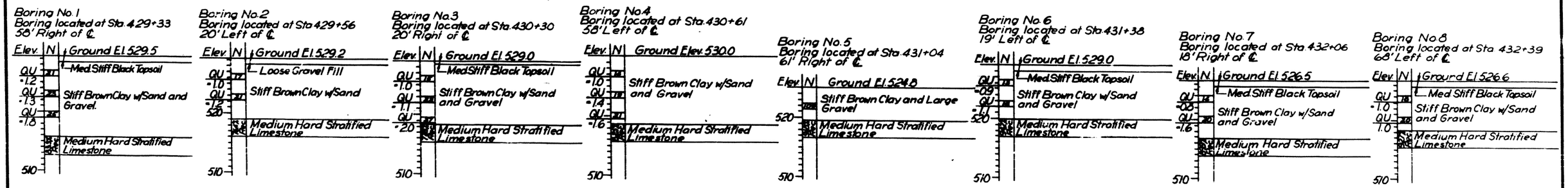


SECTION B-B

ONE END POST BILL OF MATERIAL

Bar	No.	Size	Lgth	Shape
c	8	#4	9-3	—
c,	14	#4	8-6	—
c2	4	#4	6-6	—
c3	4	#4	5-0	—
c4	12	#4	10-6	—
c5	2	#4	3-6	—
c6	2	#4	7-0	—
c7	2	#5	7-0	—
Reinforcement bars			lbs	270 *

* Included in Quantities on Sheets 20 & 21



BORING DATA

Note: N = Blows per foot of penetration of sampling spoon. Hammer weight = 140 lbs.; Drop = 30"
QU = Unconfined compressive strength in tons per square foot.

TABLE OF WINGWALL ELEVATION

Elev.	N.E. Abut.		N.W. Abut.		S.E. Abut.		S.W. Abut.	
	NWW	SWW	NWW	SWW	NWW	SWW	NWW	SWW
A	559.66	560.68	567.53	568.37	560.69	561.26	568.44	569.18
B	559.57	560.60	567.64	568.48	560.60	561.17	568.55	569.29
C	558.81	559.85	567.08	567.92	559.84	560.41	567.99	568.73
D	558.05	559.10	566.52	567.36	559.08	559.65	567.43	568.17

DESIGNED	P.H.
CHECKED	C.S.
DRAWN	S.E.F.
CHECKED	L.A.N.

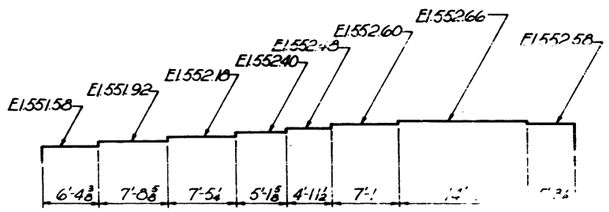
ABUT. DETAILS & BORING DATA
FAI-80 OVER HICKORY CREEK
STA. 430+90.00

F.A.I. ROUTE 80 — PROJECT
SECTION 99-4B-1 — WILL COUNTY
Scale: NO SCALE — Date: Jan. 30, 1961

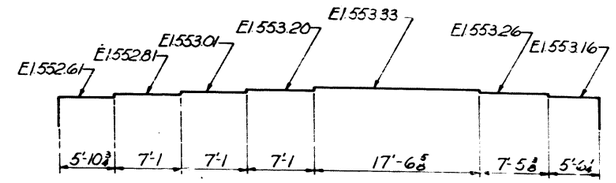
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-4R-1	WILL	32	23
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT-		



NE ABUTMENT



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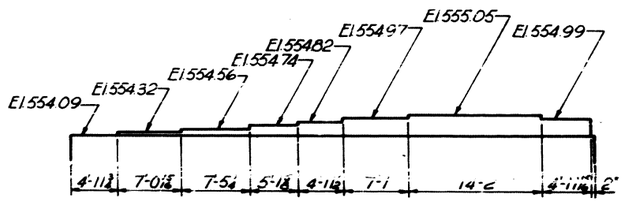
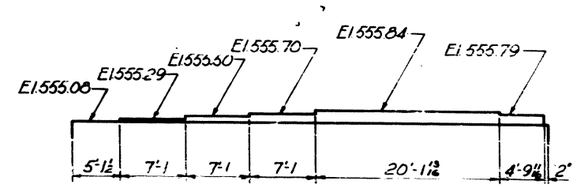
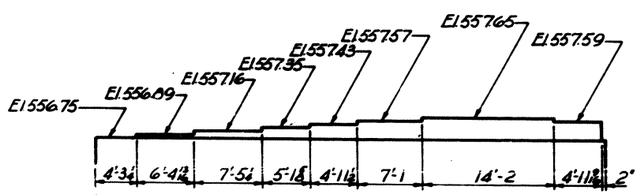


PIER 2



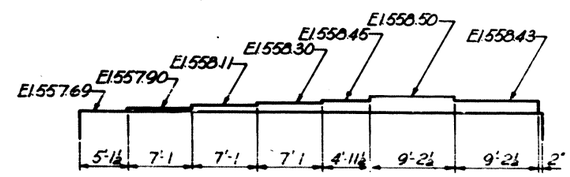
PIER 4

to ℄ FAI 80



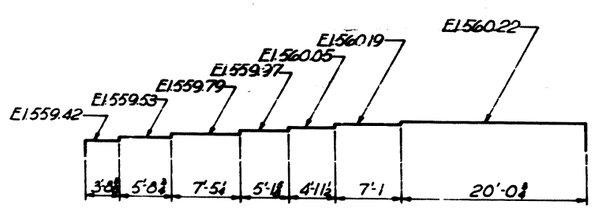
PIER 1

to ℄ FAI 80

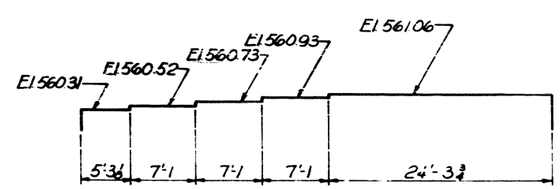


PIER 3

Notes: space bars to miss anchor bolts.
pour steps monolithically with the cap
mark all bars seperately for each pier



NW ABUTMENT



SW ABUTMENT

DESIGNED	R.H
CHECKED	CS
DRAWN	E.R.
CHECKED	LAN

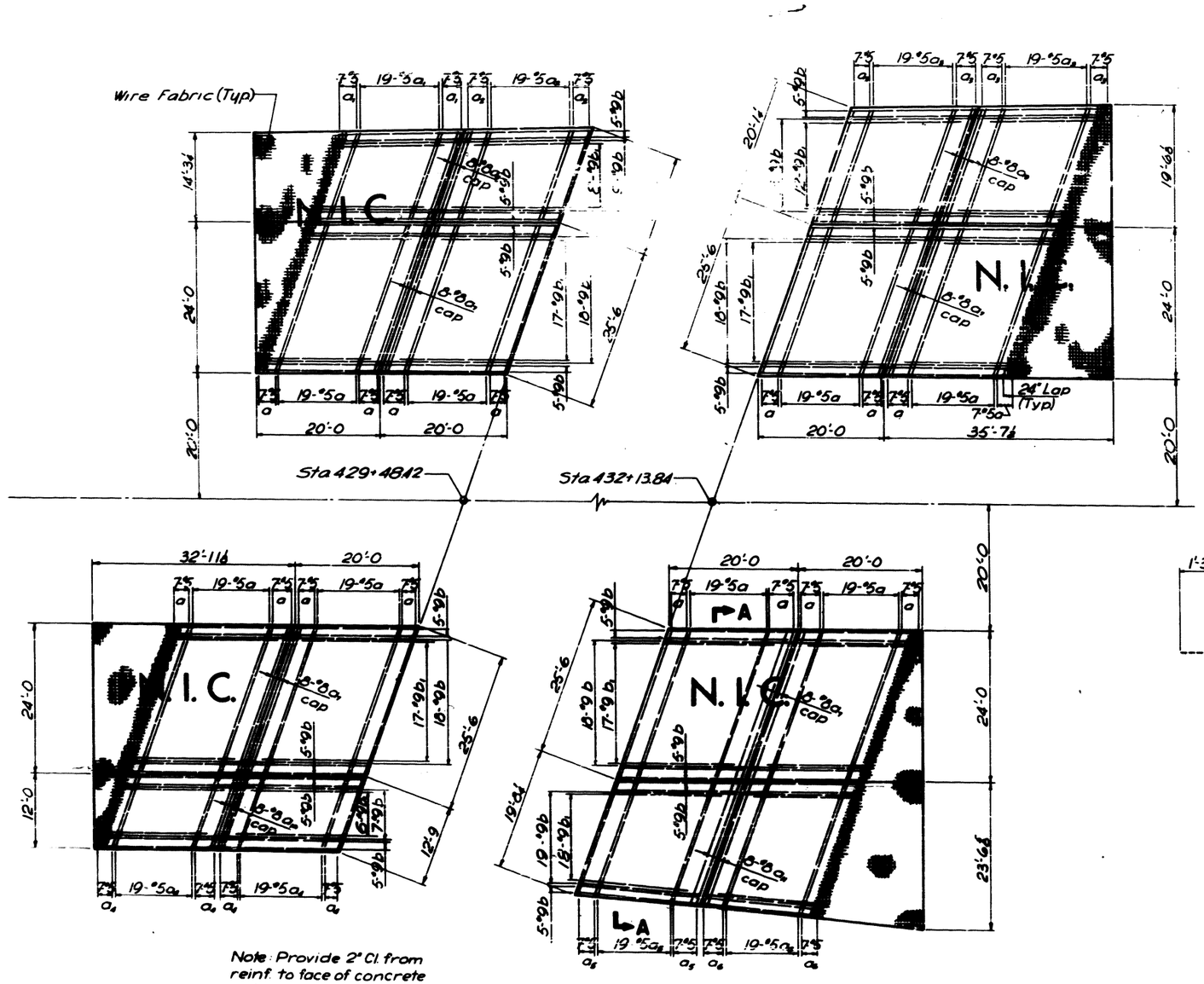
PAD ELEVATIONS
FAI-80 OVER HICKORY CREEK
STA. 430+90.00

F A I ROUTE 80 — PROJECT
SECTION 99-4R-1 — WILL COUNTY
Scale: NO SCALE — Date: Jan 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. — NEW YORK, N. Y. — CRYSTAL LAKE, ILL.

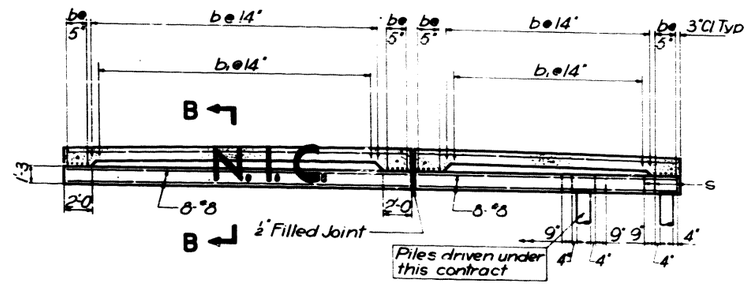
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-80	99-4B-1	WILL	32	24
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT-		

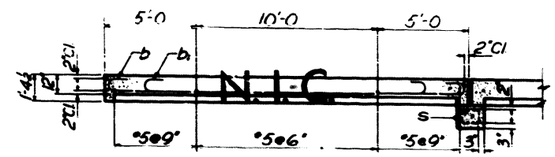


Note: Provide 2" Cl. from reinf. to face of concrete unless otherwise noted. For additional notes and details see Illinois Standard 2138-1

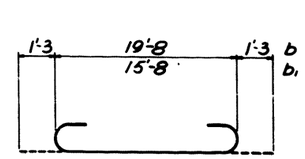
DETAILS OF APPROACH SLAB



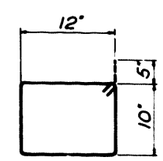
SECTION A-A



SECTION B-B



BARS b & b₁



BARS

BILL OF REINFORCING

Bar	No.	Size	Lgth.	Shape
a	264	#5	25'-2	—
a₁	33	#5	14'-10	—
a₂	33	#5	15'-3	—
a₃	66	#5	19'-9	—
a₄	66	#5	12'-5	—
a₅	33	#5	19'-1	—
a₆	33	#5	9'-10	—
a₇	32	#8	25'-2	—
a₈	8	#8	15'-3	—
a₉	8	#8	19'-9	—
a₁₀	8	#8	12'-5	—
a₁₁	8	#8	21'-0	—
b	400	#9	22'-2	⊂⊃
b₁	224	#9	18'-2	⊂⊃
S	148	#4	4'-6	□

BILL OF MATERIAL

Item	Unit	Quan.
Class X Concrete	Cu. Yd.	120
Reinforcement Bars	Lbs.	59610
Portland Cement Conc. Pavement 16½"-12"-16½"	Sq. Yd.	827

DESIGNED	R.H.
CHECKED	C.S.
DRAWN	E.R.
CHECKED	H.S.R.

APPROACH SLAB
F.A.I. 80 OVER
HICKORY CREEK
STA. 430+90.00

F.A.I. ROUTE 80 — PROJECT I-80-4(36)134
SECTION 99-4B-1 — WILL COUNTY
Scale: NO SCALE — Date: JAN. 30, 1961

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS
WOODBURY, N. J. NEW YORK, N. Y. CRYSTAL LAKE, ILL.